

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 23rd Year • Single Copy: \$1.25

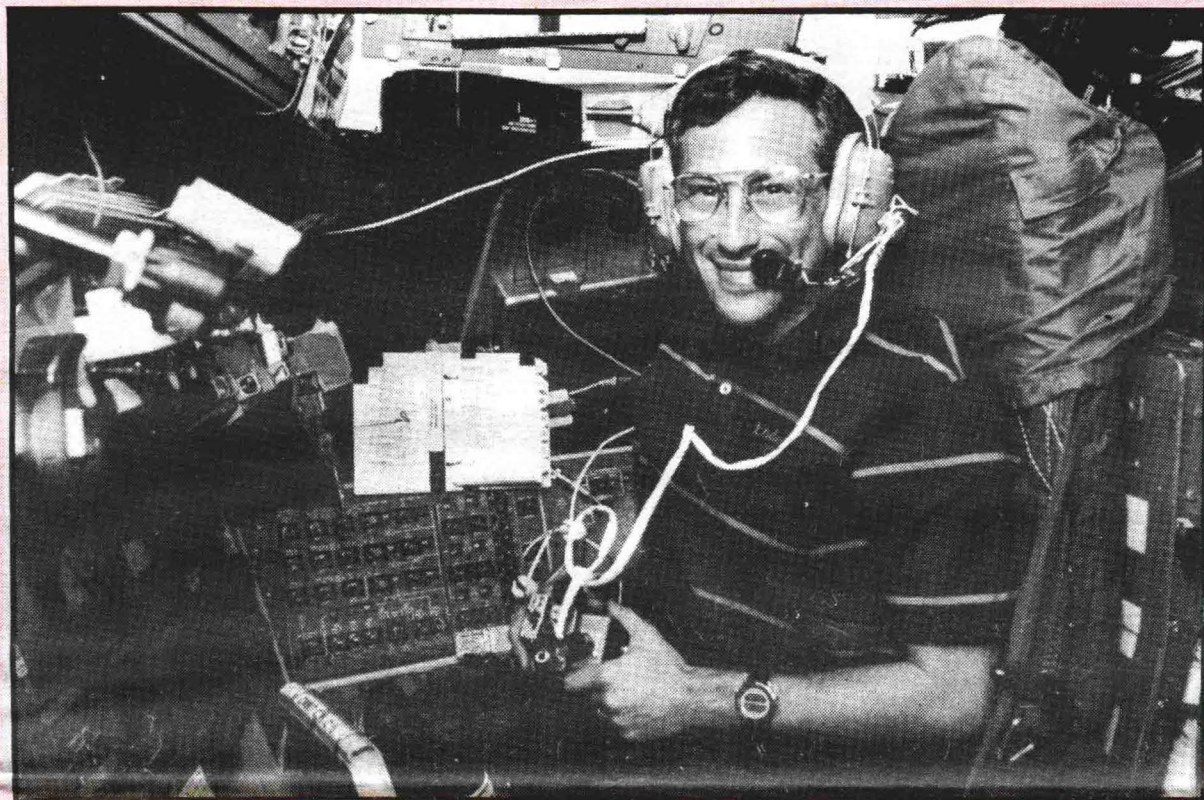
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Vol. 23 No. 11 - 275th Consecutive Monthly Issue - Baraboo, Wisconsin - November 1992

Jay's Apt to Operate Ham Radio Anywhere - Including Space



Astronaut Jerome (Jay) Apt, STS-47 mission specialist, communicates with students during one of the many runs of the Shuttle Amateur Radio Experiment (SAREX). Apt is on the flight deck of the earth-orbiting Space Shuttle Endeavour. He joined five other NASA astronauts and a Japanese payload specialist for eight days of scientific research in support of the Spacelab-J mission. Apt's Amateur Radio call sign is N5QWL. A wrapup story about STS-47/SAREX begins below.

- NASA photo

SAREX Helps NASA When Computers Fail

Amateur Radio came to the aid of NASA at 3:00 a.m. CDT, Friday, September 18th, when the small, battery-powered SAREX radio aboard the Space Shuttle Endeavour became the only link for the astronaut crew and mission control in Houston, Texas after computers handling official communication from earth failed briefly.

Ordinarily, mission-related communication is controlled by computers in White Sands, New Mexico. These computers coordinate the flow of data between Mission Control in Houston and the Tracking Data Relay Satellites in geostationary orbit around the globe. The TDRS satellites, in turn, relay messages to the shuttle providing virtually constant communication, regardless of the shuttle's position.

But as the United States slept on in the wee hours of Friday morning, a glitch in the White Sands computers plunged the shuttle into a tem-

porary communication blackout. Mission controllers could hear pilot Jay Apt, N5QWL (pictured above), but could not respond to him.

At the time of the outage, the shuttle was coming over the horizon toward a scheduled Amateur Radio rendezvous with Queensland University of Technology in Brisbane, Australia. There, Andy Joyce, VK4KIV, was standing by. Mission control in Houston asked Lou McFadin, W5DID, and Doug Loughmiller, KO5I, in the nearby SAREX control room to relay a message to Apt via Australia that communication would soon be restored.

"Even though SAREX is primarily an education program, we've always recognized that Amateur Radio could be a backup link in a NASA space shuttle mission," said Roy Neal, K6DUE, Chairman of the SAREX working group. "Thankfully, this

Please turn to page 9

*Happy
Thanksgiving!*

Amateur Radio Spectrum Act Closer to Passage as 102nd Congress Adjourns

A proposed law to protect Amateur Radio frequencies gained majority support in the House of Representatives and more than one-third support in the Senate before the 102nd Congress adjourned.

The proposal, the Amateur Radio Spectrum Protection Act (H.R. 73/S. 1372), has been enthusiastically backed by the nation's approximately half a million Amateur Radio operators. To date, 219 congressional representatives and 35 senators have signed on as co-sponsors, more than satisfying the American Radio Relay League's initial objective of gaining broad bipartisan support.

"With half the House and more than a third of the Senate already co-sponsors, Amateur Radio has a big head start in working with the 103rd Congress next year," says ARRL President George Wilson, W4OYL. "The fact that we have this many friends on the Hill does not go unnoticed at the Federal Communications Commission."

"ARRL members did a wonderful job of explaining the need for this bill to their legislators," Wilson says. "The League's Washington team followed up with literally hundreds of in-person briefings that gave our elected representatives a much clearer picture of Amateur Radio and its importance as a national resource."

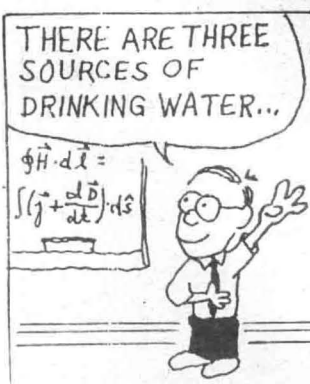
Wilson says that legislators responded positively to the fact that amateur spectrum is like a public park that is used not only for the benefit of the licensees, but also for the general public.

The Amateur Radio Spectrum Protection Act was introduced in the House by Representative Jim Cooper (D-TN) and in the Senate by Senator Al Gore (D-TN) after passage of the Federal Communications Commission (FCC) Authorization Act in 1988. That act also includes a provision strongly encouraging and supporting the Amateur Radio Service and its emergency communications efforts.

Please turn to page 9

ELMER

By Rich Regent, K9GDF



ON THE INSIDE

What's Happening	2
Wisconsin Nets Association	4
Here and There	5
Samuel F. B. Morse	6
Wisconsin Repeater Directory	7, 8
Correspondence	9
QRP, Bike to Bike-Style	9
From the Olde Goat	10
Riverland Amateur Radio Club	11
Taylor County Area Amateur Radio Club	11
Sheboygan County Amateur Radio Club	11
Product Review	12
Racine Megacycle Club	12
Mancorad Radio Club	12
Watts Snoo (Central WI Radio Amateurs)	13
Eau Claire Amateur Radio Club	13
Northern Wisconsin Radio Club	13
The Wisconsin Packeteer	14
Yellow Thunder Amateur Radio Club	15

What's Happening

♦ **Swapfests and Other Social Events** ♦ **Club Meetings** ♦ **Amateur Radio Exam Schedules**

Edited by Kenneth A. Ebnetter, K9EN • 822 Wauona Trail • Portage, WI 53901

Swapfests and Other Social Events

SATURDAY, NOVEMBER 7, 1992. "6.91 Friendly Fest", Serb Hall, 51st & Oklahoma Ave., Milwaukee, WI. Contact: The Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201.

SATURDAY, NOVEMBER 7, 1992. Riverland Amateur Radio Club Swapfest at the Onalaska Community Center, 515 Quincy St., Onalaska, WI. \$1.00 donation requested. Tables - Free (first come first served). Contact: Judy Williams, N9LGV, P.O. Box 621, Onalaska, WI 54650. (608) 783-8028.

SUNDAY NOVEMBER 8, 1992. Fox Cities Hamfest 92 presented by the Fox Cities ARC at the Starlite Club, at the corner of state hwy 55 and city JJ. (North of Kaukauna). Amateur License exams (see testpoint). Contact Don Baker, NB9J, 217 Grant St., Little Chute, WI 54140. (414) 687-0572. (also see the ad in next months BSSS).

SATURDAY, NOVEMBER 14, 1992. Fort Wayne, IN Hamfest. Contact AC-ARTS, P.O. Box 10342, Fort Wayne, IN 46851.

SUNDAY, JANUARY 10, 1993. 21st Annual WARAC MIDWINTER swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact WARAC Swapfest, P.O. Box 1072, Milwaukee, WI 53201. Please note this will be on a Sunday next year instead of the previous Saturday dates. (see also ad on back page and watch for ad with full details next month.)

SUNDAY, APRIL 4, 1993. Madison, WI Swapfest, sponsored by MARA. Contact MARA, PO Box 8890. Madison, WI 53708-8890. (608) 249-7579. Watch for flyer, and see ad back page.

As a service to our readers, this section of Badger State Smoke Signals is available

without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the September 1992 meetings column for the latest complete listing. The following are additions or changes since that listing.

RIVERLAND AMATEUR RADIO CLUB
First Tue. - 7:00 p.m. - Onalaska Community Center, Onalaska WI.

Vacations is what you take when you can't take what you've been taking any longer.

The man noticed that he had no spoon for his coffee....Waiter, he said...this coffee is too hot for me to stir with my finger...The waiter soon returned with another cup of coffee....Here...Try this one...It's not as hot.

example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting Material from Badger State Smoke Signals

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Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

November 7 1992	Menomonie, WI
November 7, 1992	Milwaukee, WI
	6.91 Friendly Fest
November 8, 1992	Kaukauna, WI
November 8, 1992	Dixon, IL
November 9, 1992	Onalaska, WI
November 11, 1992	Lincoln, IL
November 11, 1992	Apple Valley, MN
November 12, 1992	Apple Valley, MN
November 14, 1992	Madison, WI
November 14, 1992	Fond Du Lac, WI
November 14, 1992	Marshfield, WI
November 14, 1992	Saint Paul, MN
November 15, 1992	Des Moines, IA
November 17, 1992	Milwaukee, WI (MRAC)
November 17, 1992	McHenry, IL
November 19, 1992	Schofield, WI
November 21, 1992	Milwaukee, WI (BE)
November 21, 1992	Dubuque, IA
November 21, 1992	St Paul Park, MN
November 22, 1992	Cresco, IA
November 28, 1992	Milwaukee, WI (MRAC)
December 5, 1992	Stevens Point, WI
December 10, 1992	Apple Valley, MN
December 12, 1992	Madison, WI
December 12, 1992	Oak Forest, IL
December 12, 1992	Saint Paul, MN
December 15, 1992	Milwaukee, WI (MRAC)
December 15, 1992	McHenry, IL
December 19, 1992	Milwaukee, WI (BE)
January 9, 1993	Marshfield, WI
January 14, 1993	Apple Valley, MN
January 16, 1993	Eau Claire, WI
January 17, 1993	Des Moines, IA
January 13, 1993	Appleton, WI
March 13, 1993	Marshfield, WI
March 20, 1993	Appleton, WI
April 17, 1993	Eau Claire, WI
May 8, 1993	Marshfield, WI
May 8, 1993	Manitowoc, WI (Hamfest)
June 12, 1993	Appleton, WI
July 10, 1993	Marshfield, WI
August 9, 1993	Appleton
September 11, 1993	Marshfield, WI
November 13, 1993	Marshfield, WI
November 13, 1993	Kaukauna, WI (Hamfest)

Monthly, First Sat. Racine, WI (except January, July & August)

Monthly, Last Sat. Tomahawk, WI (January thru October only)

Monthly, Third Sat. Loves Park, IL

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For

FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.40 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

TUESDAY DATES: At 6:30 p.m. at church, 11709 West Cleveland Ave., West Allis, WI.

LAST SATURDAY DATES: At 8:30 a.m. in the lower level of Savings and Loan, 7500 W. State St., Wauwatosa, WI.

SECOND SATURDAY DATES (SWAT team): 1:00 p.m. at Wauwatosa Savings and Loan, 6560 S. 27th St., Oak Creek, WI.

For Additional Information Contact; Jack Krause, W9JK, 1737 N. 116th St., Wauwatosa, WI 53226. (414) 774-6999 or Les Peterson, W9YCV, 9741 W. Howard Ave., Greenfield, WI 53228. (414) 321-4745.

Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. CW waiver forms are available. Please send a request with an SASE prior to taking an exam, so it is ready when attending the session. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MADISON WI

Monthly, every second Saturday

Exams held at 8:00 a.m. in the Operations Building of the Madison Metropolitan Sewerage District, 1610 Moorland Rd. Turn South off Highway 12 & 18 on South Towne Drive, go 3/4 mile until South Towne Drive becomes Moorland Rd. Turn right into the treatment plant. Follow the road to the building with the 160 Ft. tower. Go in to the first room on the right. For further information contact Mark E. Jenks, N29B, 1718 Washington St., Mount Horeb, WI 53572 (608) 832-6631.

EAU CLAIRE, WI

Held 9:00 a.m. to 12:00 noon at St. Olat's School on the North Lane in Eau Claire, WI., near the airport. Contact Carl Searing, W9NW. (715) 834-1303.

MEDFORD WI - ARRL/VEC

Held 8:30 a.m. at the Multi-purpose building (yellow) located at the Taylor County Fairgrounds in Medford, WI. From Highway 13 & 64, turn east on 64 and enter the second driveway on the north side of the road, across from the Auto Stop convenience store. Advance reservation appreciated, but walk-ins accepted. Contact Greg Garner, WA9W, (715) 453-7096 or Mike Schoenfuss, N9GHZ, (715) 223-3996, and leave a message with your name, phone no., and exam element wanted.

FOND DU LAC - (W5YI-VEC)

Saturday, Nov. 14, 1992.

The Fond du Lac County VEs will administer exams starting promptly at 1:00 pm, please be on time. Exams are given at the Red Cross Building,

272 N. Main St., Fond du Lac, WI 54935. Please use the back entrance. Talk-in on 147.09+. Walk-ins only, no preregistration is needed. For more info call: Gary Pelletier, KA9QOT (608) 837-3433.

MENOMONIE WI - ARRL/VEC

Saturday: Nov. 7, 1992

The Northern Wisconsin Radio Club sponsors exams from 9 to 11:30 a.m. at the U. W. Stout Communications Center, 820 South Broadway, Menomonie, WI. Use front entrance of building. Walk-ins are accepted only to extent of available exam materials.

Contact: Jim Ley, NX9F, (715) 235-3998 (H); or (715) 232-1397 (O).

MARSHFIELD, WISCONSIN

1992 dates: Nov 14.

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wal-lonnie Dr., Marshfield, WI 54449. (715) 387-3870

SHEBOYGAN, WI

The SCARC VE team (ARRL/VEC) will administer Amateur Radio License Exams at 6:30 p.m. at the Red Cross Building, 2032 Erie Ave., Sheboygan. Preregistered applicants will have first priority. For registration information contact Tom Hetzel, AA9BJ, 1658 S. 26th, Sheboygan, WI 53081. Phone (414) 458-2307.

SCHOFIELD, WI - ARRL/VEC

Contact: Anthony Hermanek. (715) 536-4595.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

STEVENS POINT, WI - ARRL/VEC

December 5, 1992

Contact: Joe Larson, (715) 344-1182 (evenings).

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. Contact: Larry Siebers, (414) 788-3823

ONALASKA, WI

November 9, 1992

Contact: Rick Williams, KV9U, 534 Troy St., Onalaska, WI 54650. (608) 783-8028.

DUBUQUE, IOWA - ARRL/VEC

1992 examination dates: November 21. The Great River ARC VEs are now field-stocked with examinations, which means that retests can be given immediately. Exams are held at 9 a.m. at the Central Fire Station, 9th and Central, Dubuque. Use the basement entrance on 9th Street. Talk-ins are on 147.84/24, 147.63/03, and 146.295/895 repeaters. Contact Mike Jozefowicz, NSOU, 2735 Hockory Hill, Dubuque, Iowa 52001, (319) 582-8563.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (Great Lakes ARC VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Paul Dean, WB9HCZ, (815) 987-6754

Out of State Exams

Information Provided by the ARRL/VEC



EASTERN IOWA

Cresco,,319-547-5329,Jim Murphy
Des Moines,,515-967-3890,Jim Snapp
Dubuque,,319-582-8563,Mike Jozefowicz

NORTHERN ILLINOIS

Dixon,,815-284-6380,Charles W Randall
Lincoln,,312-465-0981,Michael Leibovitz, WA9EVF
McHenry,,815-678-4276,Jack Hudson
Oak Forest,,312-247-0650,William Koltz

MINNESOTA

Apple Valley,,612-432-1640,Paul Ramey WGOG
Saint Paul,,612-888-6187,Jerry Jensen
St Paul,,612-222-7253,John Bellows

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

(continued from page 15)

PACKETEER - Sending a personal message
HINTS:

When sending any message to a distant destination, put the CITY, STATE and Postal Code (if known) as the title of the message.

When sending NIS traffic use ST postal-code @NISxx (xx is state or province).

Example: ST 44026@NISOH

You may also send a message as a reply to a message on this system by using the REPLY command. You type REP #### where #### is the message number you want to reply to. You do NOT specify an @BBS as it will be determined from the message you are replying to. If you put a period after the msg number, a title will automatically be generated for you of the form RE: and the original msg title. You can send the REPLY command to reply to private messages or bulletins. Example: REP 12345.

73 de Larry/WD9ESU

NEW REPEATER DANE, COLUMBIA COUNTY

A new low power repeater will soon be on the air in Columbia County for those users who live in the craters of Lodi, Poynette, Rio, Lake Wisconsin and Northern Dane County. This new repeater will be located at Arlington, Wisconsin on the N9QIP tower. The frequency is 147.315 + pl = 123.0. The repeater will have 30 W. PO and full time PL. During NASA shuttle flights, you will hear NASA select live audio. you may have heard the last NASA flight audio broadcast there. Target date for on the air, is October 1, 1992, providing the xtals get here on time. It will start out as a local repeater and eventually become linked to a UHF system to give those in Columbia County the chance to work 440 with their 2-meter rigs. I hope that the system will fill the void in this area.

73 Len, N9QIP

Did you hear the one about the packeteers who's tnc blew up?

He had bytes all over his body.

A man, while in a public rest-room, read on the wall, "ONE NIGHT STAND, \$20" He called the number listed underneath and spoke to a very nice woman who was selling bedroom furniture.

I have never heard such corny lyrics, such simpering sentimentality, such repetitious, uninspired melody. Man, we've got a hit on our hands...Brad Anderson.

Wisconsin Nets Association Ltd.

Rob Hummel, WA9ZTY, Secretary • 202 Midvale Drive • Marshall, WI 53559

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Season's Greetings.

Congratulations to W9IHW who was awarded with the WNA traffic handler of the year plaque.

Exams:

December 5th, Stevens Point and Racine;
December 12th, Madison;
December 15th, Milwaukee MRAC;
December 19th, Milwaukee Badger Examiners.
December 28th through January 2nd will have

DXpedition to Corn Island, Nicaragua, using call YN0YN operated by Wisconsin's KN9P, W9OP, WB9SAU, and WB9YDT.

New QCWA Chapter 55 officers: President KN9P, Vice President W9LPF, Treasurer W9RZW, Secretary W9OP.

Fox Cities ARC helped hungry in Menasha community with a church-coordinated food drive.

Rock River RC has new controller for their W9TCH repeater and will have Christmas Party December 3rd.

WA9ZTY held one of his very practical General license classes outdoors to erect antennas and then make contacts.

W9YCV has submitted 50 QSLs for the 70cm VUCC award.

Did you know that WB9YPY began the North-west Traffic Net in 1977?

K9LGU wonders how he can remark the numbers worn off of his handheld radio.

Sorry to report Silent Key WT9Z.

Thought for the month: *When you dial a wrong number, you never get a busy signal.* □

The minutes of the September meeting of the WNA are in this issue. They begin on page 11. □

Net News and Gossip

Written and Edited by the Net Managers

Wisconsin Intrastate Net/Late (WIN/L)

Ed Rice, W9NGP, Net Manager
W-126 Lang Road
Oconomowoc, WI 53066

Business is steady for the late WIN, as indicated by the yearly totals shown below.

All NCS and 9RN assignments are filled.

Jan-Sep 1991

Jan-Sep 1992

QNI	1778	1698
QTC	525	532
QSP	388	378

Everybody enjoyed the WNA picnic. I had a nice talk with K9GDF and W9YCV, and was treated to some delicious cup cakes.

My thanks to all the OPS who show up every night and make the late WIN work. Anyone who has traffic left on the hook at 2200 should give us a try.

73, Ed

The WNA Picnic

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

The mooood was fine for the annual Wisconsin Nets Association Picnic held at Kiwanis Park in New Holstein, a beautiful city of 3,500, with perfect weather and a turnout of 32.

The Park was reserved by Mayor Dennis Rybickie, K9LGU. Denny has been New Holstein Mayor for 11 years and is now in a non-election year. So he was congenial but relaxed and even had the local 147.90- repeater, of which he is trustee, to announce "HI WNA" in code. Denny admits, "I listed 'Chairman of Wisconsin Nets Association' on my campaign brochure when first running for Mayor. It apparently helped!"

KE9VU, Badger Emergency Net Manager, provided ice-cooled liquid refreshments and great picnic coordination. Everyone brought along their favorite food and extra salad, cake or special food dishes to pass around. We cheated and stopped at A&W enroute to bring some chicken meals.

The WNA meeting, run by WNA Chairman K9KSA, Section Traffic Manager, who held elections for new officers: Chairman, WB9ICH; Treasurer, W9AYK; Secretary, WA9ZTY. There was discussion of packet radio, MARS and Amateur format of handling traffic. The Top Traffic Handler Plaque for 1991 was presented to W9IHW, while WB9YPY and W9CBE got tags to add to theirs.

Ed Rice, W9NGP WIN/L Manager, complained about his piano practice, the low notes played with

the left hand haven't been cooperating for the past year. He also reports difficulty in removing rust from between his ears before receiving code when returning from a long vacation.

The Pedersen family is now fully licensed. Roy, K9FHI Assistant Section Manager, and his wife Beryl, KA9BAC, of Juneau have had their son Gary, KA9BAC in Pewaukee, licensed for many years. But now they are proud to have their other son Mike, of Mayville, freshly licensed in August as N9QMV. Mike was a student in the WA9ZTY Amateur Radio classes. Although Gary and Roy can keep in touch on packet radio, the whole family is gearing up to help Mike get on 2 meters for full family discussions.

Everyone got a door prize. Others played bingo to win prizes. Three people got painful bee stings. Everyone was alert to gauge the mood of the bees, whether they would attack or were just being curious. There was no CW versus SSB baseball game, maybe that was good because the field was a bit squishy after a recent rain.

In the meantime, the second day of music, dance and New Holstein activities were in full schedule. Some of the activities included concessions, crafts, a petting zoo, pony rides, children's games, milk-a-cow, hayride tours, plus having antique tractors and farm equipment on display. Denny says, "I was going to have cows run down the streets like bulls in Spain but that would be an *udder disgrace*."

After the picnic, K9LGU gave W9YCV, N9DIJ and me a tour of his shack. Wow!

New Holstein is not only a great place for a WNA picnic, but also a community with heart. Those that live there are proud to call it home. □

Stranded Motorist Assisted

It was an early morning on highway 16 near highway 26 just north of Watertown when a woman motorist's car developed engine trouble. She didn't know that her fuel pump had just pumped its last when it quit. Then more bad news, she coasted down the two-lane highway in her car to a dark place at an underpass, where the car stopped moving and she couldn't restart the engine.

Just moments later, Debbie, N9NZP, who was driving on highway 16, noticed the vehicle and

stranded motorist. Debbie stopped off the highway and went to ask if help was needed. Next she radioed to Dennis, WB9MSM, in Watertown, on 2 meters who immediately drove to the area and found that the engine problem could not be easily repaired, especially with the car on the highway. Meanwhile, Bill, WA9OAY, also of Watertown, was listening in and had phoned for a tow truck which was quickly dispatched to the scene.

Amateur Radio help was most appreciated by the motorist that morning and probably prevented a vehicle accident. (Thanks to WA9ZTY for facts for this story.)

- Rich Regent, K9GDF

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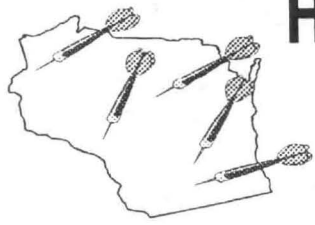
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HERE and THERE

Latest FCC Amateur Radio Call Signs

Here are the latest call signs issued by the FCC as of October 1, 1992:

Dist.	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0KI	KG0BF	N0UGS	KB0KSR
1	AA1EE	KD1KS	N1NOE	KB1AKO
2	AA2LK	KF2KT	N2SPQ	KB2PLW
3	AA3CF	KE3EY	N3NLN	KB3AIR
4	AC4WF	KQ4GU		KD4TJB
5	AB5IK	KJ5FI		KB5VMX
6	AB6OQ	KN6BD		KD6OAB
7	AA7RT	KI7HG		KB7QGM
8	AA8IX	KF8XK	N8VUN	KB8OIC
9	AA9FE	KF9LR	N9RDV	KB9IEK
North Mariana Is.	AH0P	AH0AL	KH0AW	WH0AAT
Guam	NH2G	AH2CP	KH2GK	WH2ANB
Johnston Is.	AH3D	AH3AD	KH3AG	WH3AAG
Midway		AH4AA	KH4AG	WH4AAH
Hawaii		AH6MD	WH6JI	WH6CPZ
Kure Is.			KH7AA	
American Samoa	AH8F	AH8AE	KH8AI	WH8ABA
Wake Wilkes Peale	AH9C	AH9AD	KH9AE	WH9AAI
Alaska		AL7OM	WL7GG	WL7CGE
Virgin Is.	NP2U	KP2CA	NP2FY	WP2AHT
PR			KP4UH	WP4LLW

For more information about the call sign assignment in the Amateur Radio Service, see Section 97.17(f) of the FCC Rules, or write to the FCC, Consumer Assistance Branch, Gettysburg, PA 17325-7245.

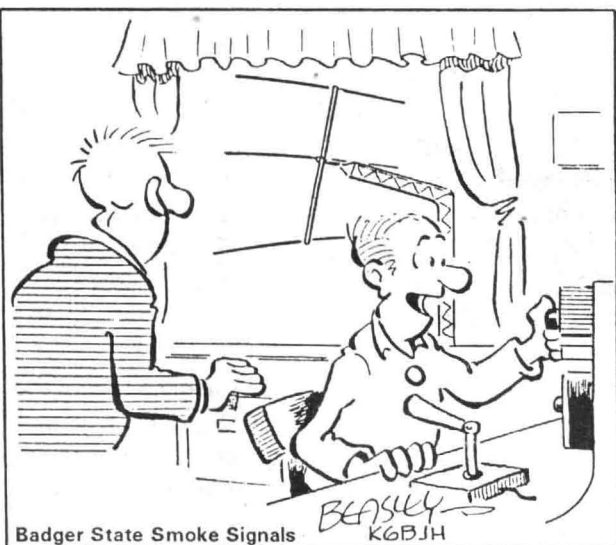
(Editor's note: The reason for the absence of Group C call signs in the 4th through the 7th districts in the list is not known.)

- WB1E via packet bulletin

WARBA Balloon Flight

By the time you read this, the fifth balloon launch to the "edge of space" by the Wisconsin Amateur Radio Balloon Association will probably be history. The launch was scheduled for October 31 or November 1 because of heavy contest activity on the amateur bands later in November, according to Team Leader Joe Mayenschein, WB9SBD. Since this issue will not reach you until after the flight, we are not including details of the package. We apologize for our failure to publish flight details in our October issue, but no information was available.

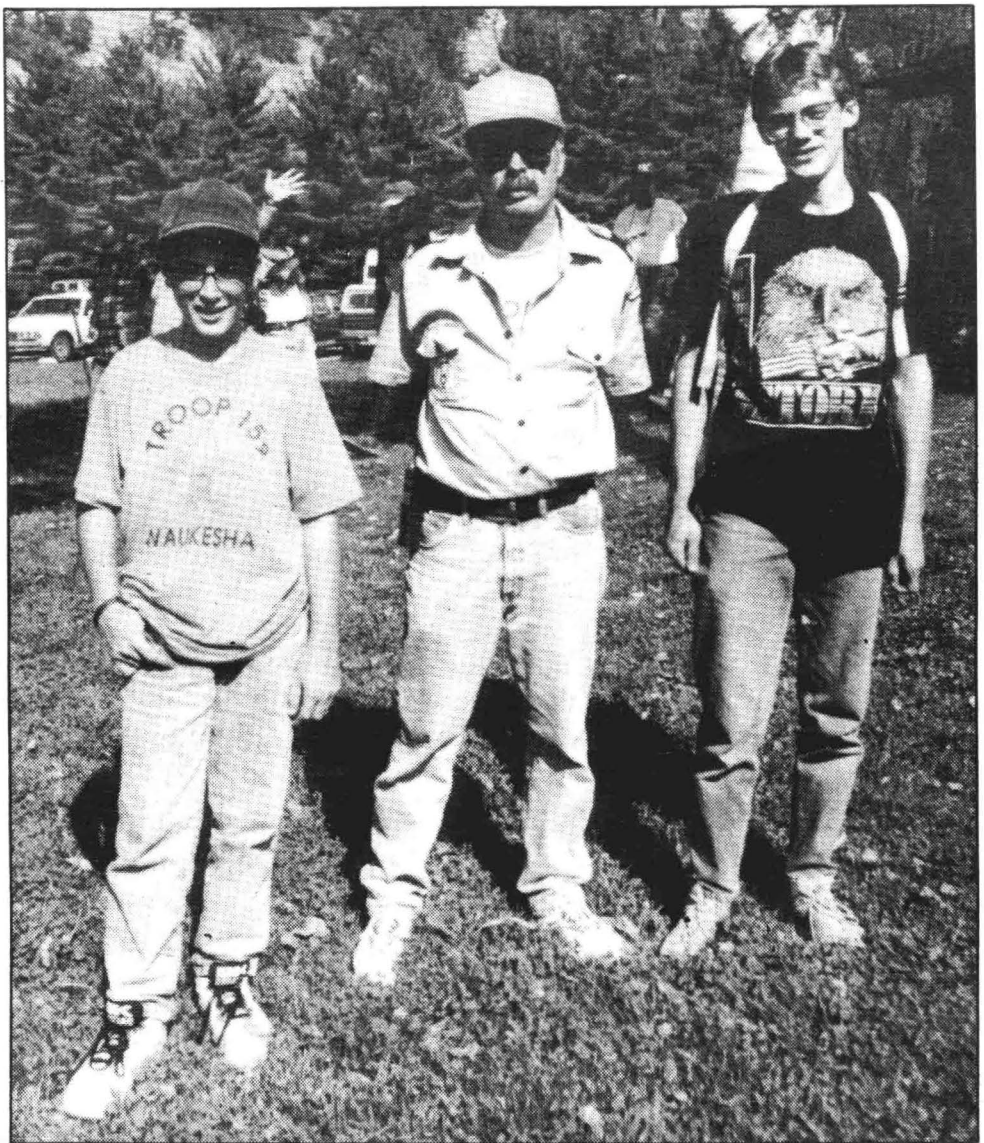
- Editor



Badger Trails: A Very Large Scouting Outing

More than 2,000 people attended the annual Badger Trails Scouting event at Devils Lake State Park near Baraboo this year, including Scouts, leaders, and friends. Troop 159 from Waukesha was well represented with 34 kids and 16 adults. In the photo are Glenn Lett, N9NLO (center), his son Greg, N9PCC, at left, and Mike Johnson, N9PAJ, all of Waukesha. Scouts from all over Wisconsin take part in Badger Trails. And, of course, other radio amateurs were present, as well. Communications for event coordination were done by hams in the 1960s, but now commercial radio gear is used for that purpose. The Scouts enjoy two days of camping and hiking the bluffs at the state park.

- K9ZZ photo



CBer Busted

The FCC has slapped a Manchester Township, New Jersey man with a \$3,500 fine for his use of a too-powerful Citizens Band radio that they contend wreaked havoc with his neighbors' television and radio reception. As part of a recent nationwide crackdown by the FCC against airwave violators, the fine was levied against Joseph Wirth and may be the largest ever issued by the agency in the Jersey shore area, according to FCC spokeswoman Gertrude Anderson.

Anderson, who is based at the agency's regional headquarters in Philadelphia, said the FCC went after Wirth after receiving at least a half-dozen complaints from neighbors. Representative H. James Saxon (R-NJ) also received complaints, she said. Wirth is charged with using a CB radio that exceeded power regulations, with using unauthorized frequencies, and with refusing to allow FCC personnel to inspect his equipment. "He (Wirth) was apparently chatting with other people, but we couldn't tell who because we weren't picking up their signals since they were too far away," said Anderson, explaining that the agency monitored his transmissions before approaching.

"His voice was coming across his neighbors' TVs and stereos several times a day, and it was jamming their TV signal if they didn't have cable TV." According to Anderson, 25 people in the FCC's northeast region, which stretches from Maine to Delaware, were fined during the crackdown. Wirth and the others are expected to file

Silent Key

ROBERT (BOB) WIGGEN, WK9V, passed away at a Madison hospital on Friday, September 25, 1992. Bob was active in ham radio, and was a member of the Four Lakes Amateur Radio Club and the Madison Area Repeater Association. He was also active as a net control station on the Maritime Mobile Service Net. Bob took part in many public service events in the Madison area. He upgraded to Extra Class in October, 1989, and formerly held the call sign N9CPV. Bob was born in 1923.

- Information from *The Feedline*,
Four Lakes Amateur Radio Club

appeals.

Several hams in the area contend that the fine has done little to curtail Wirth's illegal activities. According to an ALLUS packet posting by AC4RT, Wirth is still active using a TS-440 transceiver. AC4RT claims that: "Wirth has also been known to use the call of N2JJU." He added that Paul Loser, the real N2JJU, was informed of this.

- Westlink Report, 10/26/92

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Samuel Finley Breese Morse

By Daniel Schobert, W9MFG, B.A.
805 Meadow Lane, Plover, WI 54467

A very important part of Amateur Radio through the years has been the Morse Code. We call it C-W (Continuous Wave). Up until the recent no-code entry level license, all Amateur operators were required to know the code before getting their "tickets."

In this article, we'll take a look at the code's history and become a little more familiar with its creator.

Communication: Mankind's Ancient Needs and Methods

Actually, the desire to speak over long distances may be as old as mankind. Some of the early methods were signal fires and smoke signals. There were also the beating of drums and clashing of cymbals. Some people even tried flag waving, something like the semaphore used in the military these days. And there was Paul Revere and his lights in a church tower. In their own ways, these were all kinds of telegraphs, devices used to quickly convey information, without having to actually travel from one point to another.

One of the more sophisticated systems was built around 1800 in France. It involved three pieces of lumber. These large pieces of wood were attached to a pole and visible from a long distance. By manipulating these pieces in particular fashions, it was possible to send something like 190 different signals or letters, at the rate of three signals or characters per minute. (How's that compare to packet??) The French government thought this was a great idea and built stations along the coast, between Paris and other important cities. A good operator could spell out a hundred words an hour. A similar system was built in America, using large letters instead of lumber, to spell out words. Lines here were established between New York and Philadelphia. Though these ideas worked, they were not handy, to say the least.

Actually a number of people had been working on various ways to send information using electricity, some as early as 1774. By 1838, some say there were upwards of sixty different systems in the field, so when Morse came along a little later he was not the new kid on the block.

One scientist developed a system based upon the movement of a compass needle when in a magnetic field. Two Germans took that idea and put up a system, using wire stretched around a permanent magnet. By changing the direction of the electric current, information could be passed. Another German scientist by the name of Steinheil took that idea and developed his Registering Electro-Magnetic Telegraph. He had a line five miles long and could send messages at the rate of six words an hour!! His system was adopted by the Bavarian government and was used for many years.

Another individual who played a key role in the development of the telegraph was Charles Wheatstone. About the same time as Steinheil, though in England, Wheatstone put together a rather complicated system using compass needles and six wires. A 20 mile line was built in 1838 on the Great Western Railway, and was in constant use for a number of years. And this brings us to Samuel Morse.

Enter Samuel Morse

It was on April 27, 1791 that Samuel Finley Breese Morse was born at Charlestown, Massachusetts. His father was a Congregational minister. By 1810 Sam Morse had graduated from Yale where he had studied chemistry and physics and picked up all there was to be known in those days about electricity and electric batteries. Morse was not quickly attracted to things electrical; he had an interest in art and took to painting portraits. During four years of studying art in London, he made what may be considered a prophetic statement. In a letter to his mother, Morse wrote: "I wish that in an instant I could tell you of my safe arrival, but we are 3,000 miles apart and must wait four long weeks to hear from each other."

He returned to America in 1815 after having painted his "Judgement of Jupiter." But like many artists in our own day, Morse's success did not come quickly. Though his 'Jupiter' piece did receive plenty of praise, he couldn't sell it. Eventually Morse took to the road and became a wondering artist. It was at Charleston, South Carolina where things started to turn around for Morse. In one week he received 150 orders for portraits, at sixty dollars each. Plenty of money in those days.

It was here that he also met and married Lucretia Walker. [It was a short marriage; she died in 1825]. They moved to New Haven, Conn., where the next 18 months he worked on a large painting of the U-S Congress. This measured eleven by seven-and-a-half feet and had the representatives along one side and the senators on the other. It contained eighty portraits. He considered it a failure because no one took enough interest in it to buy it. So he returned to painting individual portraits, even a life size portrait of General Lafayette. His popularity grew and Morse came to be seen as the greatest artist in America.

All of this must have played a role in his most important contribution to communications history, an aspect of Morse's life which seems to have gotten a large boost when he was travelling from France to New York in 1832. On the ship, he became acquainted with a Dr. Charles Jackson of Boston and learned that electricity would move nearly instantly, through metal, from one place to another. This information seemed to intrigue Morse, and he wondered if perhaps a wire could be stretched from one location to another permitting the passage of electricity. By the time the ship docked, Morse had some sketches completed and the telegraph was on the way to becoming a real thing. But Morse had plenty of rocky road ahead.

We've seen that the desire for mankind to communicate over great distances is very old. Smoke and fire signals were early concepts. By the time Morse arrived on the scene in the late 18th century, several people had developed complicated electric systems. Morse didn't become involved until he was over 40, having spent his earlier years as a portrait painter. He was attracted to the idea of communicating by way of electricity through a wire while on a voyage from France to America in 1832.

Putting the whole concept together did not come quickly for Samuel F.B. Morse. While earning a meager life as a painter, he devoted himself to this new project, taking five years to complete a working model. He had it patented in October 1837, though the device was very crude and clumsy in

"Your invention.. is not only the greatest invention of this age, but the greatest invention of any age."

- Letter to Samuel F. B. Morse

sending and receiving messages. The following February he put on a demonstration for President Van Buren and his cabinet. They were impressed. Morse had developed a system, using an electromagnet, which would have far reaching effects. However, the struggle wasn't over.

Partners Join the Effort

Morse worked to develop the device by entering into a partnership with several men, one of whom was an Alfred Vail of Morristown, New Jersey, who backed him with \$2,000. Morse constructed his code by the fall of 1838. This Morse code was new only in its own combination of dots and dashes. (A further discussion of the code can be found in *The American Leonardo* by Carleton Mabee, 1957, from Knopf.) It seemed as though things were going great. A friend wrote: "Your invention...is not only the greatest invention of this age, but the greatest invention of any age." Such thoughts gave Morse a big vote of confidence and so it was off to Washington to request \$30,000 to build a line between the capitol and Baltimore. He was turned down; the congressmen couldn't see any value in it. However, the chairman of the House Committee on Commerce was so impressed, he resigned to join the Morse partnership! Still confident that his telegraph was worthwhile, Morse was off to Europe, hoping to get support there. But he was turned down everywhere and returned to America in 1839, penniless.

From Darkness to Light

The next four years were his darkest. His money was gone, his partners lost interest, congress continued to refuse support and he wasn't doing very well as a painter either. But things did start to look up. Congress was taking another look at the project. The debate went late into the night. Like a sports fan who goes home to early, Morse thought the worst and left the balcony where he was watching. He was sure it was over for the telegraph. But congress, in a late hour vote of 89-83, came through. The next morning Morse, while eating breakfast with the Commissioner of Patents, learned the great news from his daughter, Annie Ellsworth and she was given the honor of selecting the device's first words.

Morse Triumphs

Work was commenced immediately and was finished in 1844. On May 24th, with Morse at the Supreme Court Room in Washington, and his partner, Alfred Vail in Baltimore, these immortal words were sent: "What Hath God Wrought." (Numbers 23:23). Morse commented: "It baptized the American telegraph with the name of the Author." Interest grew quickly, though [not unsurprisingly] some members of congress were still skeptical. Soon Morse was being honored around the world. Ten European countries awarded him \$80,000. By the next spring, April 1, 1845, the first telegraph line between Washington, D.C. and Baltimore was opened to the general public. It cost one cent for every four characters transmitted.

Please turn to page 9

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O	Carrier Access	B	Burst
PL	Sub-Audible Continuous Tone	T	Touch-Tone
W	Whistle	C	Closed Private Repeater
A	Autopatch	(CA)	Closed Private Autopatch
E	Emergency Power	L	Link and/or Crossband
P	Portable	R	RACES Affiliated
Y	RTTY/ASCII	Z	Autopatch to Law Enforcement
PAC	Packet Data Exchange	X	Wide Area Coverage

Wisconsin Sub-Audible Tone Plan By Region

North Central	- 2A, 114.8 Hz	North East	- 1B, 107.2 Hz
North West	- 2Z, 110.9 Hz	South Central	- 3Z, 123.0 Hz
South East	- 3A, 127.3 Hz	South West	- 3B, 131.8 Hz

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Location	Rg	Output	Call	Access	Update OK=*	Sponsor	Updated
ALGOMA	NE	146.805	WB9RJB/R O PL 107.2 L		*	WB9RJB	03/14/92
ALLENTON	SE	442.350	N9GMT/R O A E L X PL 114.8		*	L-FM 38	08/15/92
ANTIGO	NC	145.310	KD9HH/R O		*	KD9HH	03/12/92
APPLETON	NE	145.150	KB9BYP/R O CA E Z PL 107.2		*	A.R.E.S.	03/14/92
APPLETON	NE	145.330	WD9FLJ/R O PL 107.2			F V VHF A	03/26/91
APPLETON	NE	146.760	K9QQO/R O		*	F V VHF A	07/05/92
APPLETON	NE	147.195	KB9BYQ/R O			KB9BYQ	07/27/92
APPLETON	NE	443.650	W9DKY/R O		*	W9DKY	03/20/92
APPLETON	NE	1282.200	N9LVS/R O E L		*	N9LVS	03/22/92
BALDWIN	NW	145.130	W9AVX/R O		*	ST.CR CO	05/08/92
BALDWIN	NW	146.685	WB0ND/R O L E		*	SARCASM	04/17/92
BALDWIN	NW	147.330	WD9GWH/R O 100 HZ XMIT PL		*	ST.CR RA	07/05/92
BARABOO	SC	146.880	K9YXW/R O E X PL 123.0		*	C W R A	04/29/92
BARABOO	SC	443.900	N9BFB/R O A L PL 114.8			L-FM 38	09/21/91
BAYFIELD	NW	146.610	W9BCY/R O		*	NLAND ARC	03/12/92
BELDENVILLE	NW	147.225	WB0WOT/R O		*	WB.A.T.S.	06/07/92
BELDENVILLE	NW	224.840	WB0WOT/R O A E		*	WB.A.T.S.	03/20/92
BELOIT	SC	146.670	WA9JTX/R O E R		*	BELOIT AR	04/12/92
BELOIT	SC	224.300	WB9UBM/R O TT		*	C.B.S. RG	03/14/92
BERLIN	SC	443.850	N9AOZ/R O A PL 123.0		*	N9AOZ	03/14/92
BURLINGTON	SE	146.745	WB9CAS/R O A		*	WB9CAS	04/12/92
BURLINGTON	SE	224.060	N9BBQ/R O PL A E			SE WI ERS	03/20/90
CHIPPEWA FALLS	NW	146.880	WA9PAM/R O		*	WA9PAM	03/12/92
CHIPPEWA FALLS	NW	444.350	WA9PAM/R O		*	WA9PAM	03/12/92
CLARKS MILLS	NE	145.370	KA9YGO/R O		*	KA9YGO	07/05/92
CRIVITZ	NC	145.470	KA9YQJ/R O PL 114.8 CA			KA9YQJ	08/20/90
DELAFIELD	SE	146.820	W9OOW/R O CA E X PL 127.3		*	SEWFARS	09/22/92
DELAFIELD	SE	444.125	KE9QP/R O E PL 114.8		*	SEWFARS	09/22/92
EAGLE RIVER	NC	145.390	KD9PT/R O		*	KD9PT	03/12/92
EAU CLAIRE	NW	146.910	K9UXP/R O A E X		*	E C ARC	06/28/92
EAU CLAIRE	NW	147.195	KA9LJK/R O			KA9LJK	07/16/90
EAU CLAIRE	NW	147.240	KA9ELD/R O CA E		*	E C ARC	06/28/92
EAU CLAIRE	NW	443.300	KB9R/R O E		*	KB9R/R	03/12/92
EAU CLAIRE	NW	444.675	KA9LJK/R O			KA9LJK	07/16/90
ELKHORN	SE	146.865	WA9AJW/R O		*	W CO ARES	08/08/92
ETTRICK	SW	146.700	WA9HCZ/R RTTY 2125 HZ MARK		*	WA9HCZ	03/12/92
FOND DU LAC	NE	147.090	WD9ESH/R O		*	FOND ARC	03/29/92
FOND DU LAC	NE	223.740	WA4COY/R O B CA		*	WA4COY	06/06/92
FOND DU LAC	NE	444.150	WA4COY/R O B A PL 107.2		*	WA4COY	06/06/92
FOND DU LAC	NE	444.225	KA0SEP/R O		*	KA0SEP	04/08/92
FORT ATKINSON	SC	145.490	W9MQB/R O		*	TCARC	04/17/92
FORT ATKINSON	SC	224.420	N9DTT/R O		*	N9DTT	04/17/92
FRANKLIN	SE	444.625	K9WQG/R O			K9WQG	11/22/90
FREEDOM	NE	224.220	AA9A/R O PL			AA9A	11/15/90
FREEDOM	NE	224.860	KD9IA/R O		*	KD9IA	02/26/92
FREMONT	NC	147.015	N9AOT/R O A L 29.600 TT		*	W.A.C.O.	03/22/92
GERMANTOWN	SE	147.045	WB9EFP/R O CA			WB9EFP	04/26/91
GERMANTOWN	SE	224.180	W9CQO/R O		*	O.R.C.	03/14/92
GERMANTOWN	SE	443.225	WD9DHI/R O PL 114.8		*	W E R A	03/12/92

Location	Rg	Output	Call	Access	Update OK=*	Sponsor	Updated
GILLETT	NE	224.480	N9MPB/R O PL 114.8		*	N9MPB	03/14/92
GLIDDEN	NW	444.650	N0EDV/R O INPUT 144.65		*	N0EDV	01/06/92
GRAFTON	SE	443.750	WA9POV/R PL 127.3		*	M UHF SO	03/14/92
GREEN BAY	NE	147.120	K9GB/R O A E Z X		*	G B M&K	03/12/92
GREEN BAY	NE	147.270	KE9PW/R O PL 107.2 31U/32D		*	NE WRL	03/28/91
GREEN BAY	NE	147.360	K9EAM/R O A E Z		*	GB M&C	03/12/92
GREEN BAY	NE	223.940	K290/R O A E		*	WA9SWX	03/12/92
GREEN BAY	NE	224.140	K290/R O A E PL 107.2		*	RA RMT	03/12/92
GREEN BAY	NE	443.500	WA9SWX/R O A E Z		*	GB M&K	03/12/92
GREEN BAY	NE	443.750	KE9PW/R O			KE9PW	09/20/91
GREEN BAY	NE	444.200	WB9VJV/R C			WB9VJV	06/08/90
GREEN BAY	NE	444.750	KB9AMM/R O		P	KB9AMM	03/14/92
GREEN LAKE	SC	146.955	KB9WC/R O E		*	G FOX ARC	06/28/92
GREEN LAKE	SC	444.400	KB9WC/R O		*	G FOX ARC	06/28/92
GREENFIELD	SE	52.880	WB9WKR/R O		*	GF'LD 6RS	03/12/92
HAYWARD	NW	147.255	N9EGE/R O CA			NVWA	05/02/91
HAYWARD	NW	444.850	N9EGE/R O		*	N9EGE	03/12/92
HERTEL	NW	147.300	WB9RAY/R O A E		*	B.A.R.S.	03/12/92
HERTEL	NW	224.500	WB9RAY/R O A E		*	B.A.R.S.	03/12/92
HERTEL	NW	443.500	WB9RAY/R O A E		*	B.A.R.S.	03/12/92
HILLSBORO	SW	145.370	WB9SBD/R O			WB9SBD	03/09/91
HIXTON	SW	146.940	KC9YE/R O		*	T-J RA	03/12/92
HUBERTUS	SE	145.250	KA9HLP/R O		*	A.R.E.S.	09/08/92
HUDSON	NW	146.955	K0LAV/R O PL 114.8 L		*	K0LAV	06/07/92
JANESVILLE	SC	145.450	WD9ACY/R O A E			R A T SYS	03/30/90
JANESVILLE	SC	442.825	NU9J/R O PL 123.0		*	NU9J	04/17/92
JUNEAU	SC	146.640	W9TCH/R O A E Z911 WX		*	ROCK R RC	07/12/92
KAUKAUNA	NE	444.450	ND9Z/R O CA		*	ND9Z	03/14/92
KENOSHA	SE	147.075	WA9YTH/R O A E PL 127.3		*	WA9YTH	03/22/92
KENOSHA	SE	224.800	WB9LST/R O A E PL 114.8		*	K.A.R.S.	03/20/92
LA CROSSE	SW	29.640	KE9XQ/R O			KE9XQ	04/20/91
LA CROSSE	SW	146.760	K9CUT/R O		*	L C R ASC	06/12/92
LA CROSSE	SW	146.865	KE9XQ/R O			KE9XQ	04/20/91
LA CROSSE	SW	146.970	K0JYB/R O A E		*	RVRLNDARC	03/12/92
LA CROSSE	SW	147.090	N9ETD/R O		*	MVARA	07/27/92
LA CROSSE	SW	444.600	N9ETD/R O		*	MVARA	07/27/92
LA VALLE	SC	442.400	W9EBF/R O PL 123.0		*	W9EBF	04/04/92
LAC DU FLAMBEAU	NC	146.670	N9AFN/R O PL		*	N9AFN	03/12/92
LODI	SC	147.225	K9EYY/R O CA E PL 114.8		*	K9EYY	03/20/92
MADISON	SC	53.090	N9BDR/R O		*	N9BDR	07/27/92
MADISON	SC	146.685	W9YT/R O PL 107.2			UW-B ARS	07/20/90
MADISON	SC	146.760	WB9AER/R O CA E Z PL 123.0		*	M A R A	03/12/92
MADISON	SC	146.940	W9FZC/R O PL 123.0		*	C W R A	04/29/92
MADISON	SC	147.150	WB9AER/R O CA E Z PL 123.0		*	M A R A	03/12/92
MADISON	SC	224.160	WB9RSQ/R O PL		*	WB9RSQ	03/21/92
MADISON	SC	443.000	NZ9B/R O		*	BURG	03/31/92
MADISON	SC	443.400	N9KAN/R O PL 123.0 X L		*	N9KAN	03/12/92
MADISON	SC	444.000	KA9VDU/R O PL 123.0 L		*	BURG	03/12/92
MADISON	SC	444.500	WB9TAE/R O PL 123.0 A E L		*	WB9TAE	03/12/92
MADISON	SC	444.775	NG9V/R O PL 114.8		*	NG9V	04/29/92
MADISON	SC	444.925	WB9TAE/R O PL (MOBILE)		*	WB9TAE	03/12/92

Location	Rg	Output	Call	Access	Update OK=*	Sponsor	Updated
MANITOWOC	NE	145.190	WB9MFB/R O X PL 107.2			* WB9MFB	03/21/92
MANITOWOC	NE	146.610	W9DK/R O TT			MANCORAD	09/16/90
MANITOWOC	NE	146.700	K9FWR/R RTTY			K9FWR	12/10/89
MANITOWOC	NE	147.030	N9GHE/R O A 2911* PL 107.2			* N9GHE	03/12/92
MANITOWOC	NE	224.540	N9GHE/R O			* N9GHE	03/12/92
MANITOWOC	NE	443.975	N9GHE/R O A			* N9GHE	03/12/92
MARSHFIELD	NC	147.180	WN9K/R OAE 2911 L 444.975			MARSH ARS	03/09/91
MARSHFIELD	NC	444.975	WN9K/R O E L 147.18			MARSH ARS	03/09/91
MAUSTON	SC	146.850	N9FVP/R O			* ARC OF CW	03/12/92
MEDFORD	NC	147.150	W9QH1/R O E P WX			P TAYLOR	08/20/90
MENO FALLS	SE	444.425	KA9FIN/R O			* SHRINE	04/17/92
MENOMONIE	NW	146.610	WB9YMB/R O			* R CDR RA	03/12/92
MENOMONIE	NW	146.805	N9HNI/R O			* N9HNI	08/25/92
MERRILL	NC	145.450	KB9DZG/R O			KB9DZG	12/03/91
MERRILL	NC	146.970	AA9CB/R O			AA9CB	07/27/92
MILTON	SC	146.715	WD9FKW/R O CA			* WD9FKW	03/12/92
MILWAUKEE	SE	29.620	WB9ZRB/R O			IND RP SY	03/14/90
MILWAUKEE	SE	29.680	N9BBG/R O PL 127.3			N9BBG	03/21/91
MILWAUKEE	SE	53.030	WB9TRO/R O			* W.E.R.A.	03/12/92
MILWAUKEE	SE	52.680	WB9ZRB/R O			IND RP SY	03/14/90
MILWAUKEE	SE	53.150	N9MTV/R O			* N9MTV	07/27/92
MILWAUKEE	SE	145.130	N9EGR/R O AELZX PL 141.3			* MAARS	06/04/92
MILWAUKEE	SE	145.170	W9FK/R O			* W A RAC	03/14/92
MILWAUKEE	SE	145.230	N9BMH/R O PL 141.3			N9BMH	05/13/91
MILWAUKEE	SE	145.390	WB9AFB/R O PL 127.3			WB9AFB	11/19/90
MILWAUKEE	SE	146.625	WB9ZRB/R O			WB9ZRB	03/14/90
MILWAUKEE	SE	146.670	W9WK/R O			* ARES	07/05/92
MILWAUKEE	SE	146.790	W9HHX/R O A PL			MSOE ARC	11/15/90
MILWAUKEE	SE	146.850	W9KHO/R O PL 127.3			MICORS	05/17/91
MILWAUKEE	SE	146.910	WA9JOB/R O E Z X PL 127.3			* M.R.C.	07/05/92
MILWAUKEE	SE	147.000	W9PY/R O PL 146.2			* P.R.C.	03/31/92
MILWAUKEE	SE	147.105	K9IFF/R C CA TT			* K9IFF	03/21/92
MILWAUKEE	SE	147.135	NY9T/R O PL 141.3			* NY9T	06/28/92
MILWAUKEE	SE	147.165	WB9SDD/R O PL 127.3 E			* WB9SDD	03/12/92
MILWAUKEE	SE	147.210	W9ODD/R O PL 127.3			* M.U. RAMS	03/12/92
MILWAUKEE	SE	223.860	WB9UOS/R O			WB9UOS	11/27/90
MILWAUKEE	SE	224.680	WD9AFR/R O PL 127.3			* WD9AFR	04/29/92
MILWAUKEE	SE	224.900	NK9G/R			NK9G	11/15/90
MILWAUKEE	SE	224.960	WB9TYT/R O CA PL 114.8			WB9TYT	07/27/90
MILWAUKEE	SE	443.150	W9KHO/R O PL 114.8			MICORS	05/17/91
MILWAUKEE	SE	443.300	WB9TYT/R O PL 114.8			WB9TYT	05/17/91
MILWAUKEE	SE	443.550	K9HXA/A C			* K9HXA	04/04/92
MILWAUKEE	SE	443.700	WA9HUX/R O PL			WA9HUX	11/28/90
MILWAUKEE	SE	443.800	N9GMT/R O A E Z L PL 114.8			* FM 38	07/27/92
MILWAUKEE	SE	444.200	K9HXA/A C			* K9HXA	04/04/92
MILWAUKEE	SE	444.300	W9WK/R O Z PL 114.8			ARES	12/05/90
MILWAUKEE	SE	444.325	N9CFG/R O PL 114.8			* B.I.O.S.	03/12/92
MILWAUKEE	SE	444.800	K9HXA/A C DPL			* K9HXA	04/04/92
MILWAUKEE	SE	444.850	WB9TRO/R C PL A E L			* W.E.R.A.	03/12/92
MILWAUKEE	SE	444.875	WB9TRO/R C			* W.E.R.A.	03/12/92
MILWAUKEE	SE	444.950	N9EDL/R O A			N9EDL	06/06/90
MINERAL POINT	SC	146.655	NX9V/R O			* ICATS	03/12/92
MONROE	SC	145.110	NR9W/R O			* G C ARA	06/04/92
MT STERLING	SW	147.360	W9DMH/R O			* W9DMH	07/05/92
NEW BERLIN	SE	147.285	W9EBF/R O PL 127.3			* W9EBF	04/04/92
NEW BERLIN	SE	442.400	W9EBF/R O PL 127.3			* W9EBF	04/04/92
NEW BERLIN	SE	442.700	N9GSI/R O A 114.8			* N9GSI	02/26/92
NEW HOLSTEIN	NE	147.300	K9LGU/R O A E Z			* C.A.R.E.S	03/14/92
NEW LONDON	NE	146.625	WB9ICH/R O			* WB9ICH	03/14/92
NORTH FREEDOM	SC	443.675	KD9UU/R OA PL 114.8 TT 71 L* KD9UU				03/12/92
OCONOMOWOC	SE	442.025	N9JUJ/R O			* N9JUJ	06/07/92
OSHKOSH	NE	147.240	KE9XH/R O TT A E Z			WIN CTY E	08/20/90
OSHKOSH	NE	147.345	WB9ZHN/R O PL 107.2			* SOLAR	04/12/92
PARK FALLS	NC	147.000	WB9WHP/R O			PRICE RA	08/25/91
PEPIN	NW	145.350	KB9S/R O			WAB ARS	11/22/90
PEWAUKEE	SE	147.210	WB9AKC/R O PL 173.8			* WCTC ARC	03/12/92
PEWAUKEE	SE	443.125	WB9AKC/R O PL 114.8			* WCTC ARC	03/12/92
PLATTEVILLE	SW	145.270	WK9M/R O A E			UWP-ARC	01/02/91
PLYMOUTH	NE	147.060	NF9R/R O			* SHEB ARC	09/26/92
PLYMOUTH	NE	224.940	KD9PE/R O			SC 220 A	03/09/91
PLYMOUTH	NE	444.100	KD9TZ/R O PL 107.2			* S CTY 440	03/12/92
PLYMOUTH	NE	444.350	WE9R/R O E L X PL 114.8			* WERA	09/26/92
POWERS LAKE	SE	443.925	KC9XN/R O PL 114.8 L			* L&K ARS	03/22/92
POYNETTE	SC	224.660	KE9KX/R O			* KE9KX	09/07/92
PT WASHINGTON	SE	146.970	W9CQO/R O A PL 127.3 EXZ			* ORC	03/14/92
PT WASHINGTON	SE	147.330	WB9RQR/R O A PL 127.3			* OZARES	09/12/92
PT WASHINGTON	SE	443.525	WB9RQR/R O			* OZARES	09/12/92
RACINE	SE	147.270	W9UDU/R O A E Z I P R			* L/S RP A	06/28/92
RACINE	SE	443.950	KA9JMK/R O PL 127.3			* KA9JMK	04/17/92
RACINE	SE	444.050	KA9LOK/R O			KA9LOK	08/06/91
RHINELANDER	NC	146.940	W9ZZZ/R O A E			* RHIN RP A	03/14/92
RICE LAKE	NW	145.110	WA9CXN/R O			WA9CXN	09/13/90

Location	Rg	Output	Call	Access	Update OK=*	Sponsor	Updated
RICE LAKE	NW	147.030	WB9WFG/R O			* BAR ARES	03/22/92
RICHLAND CTR	SW	146.910	WB9SLI/R O PL			P V RP A	03/30/90
RIDGEWAY	SC	444.450	KA9WBX/R O			KA9WBX	08/25/91
RIVER FALLS	NW	443.800	K9ZMA/R O			* K9ZMA	03/22/92
ROSHOLT	NC	147.255	KF9HP/R PROPOSED			KF9HP	
RUBICON	SC	145.350	WB9KPG/R O A E Z			WB9KPG	03/29/91
SALEM	SE	224.060	N9BBQ/R O A E L Z			N9BBQ	08/25/91
SHAWANO	NC	145.350	KA9NWX/R O PL 114.8			* KA9NWX	05/08/92
SHEBOYGAN	NE	145.110	KR9S/R O			SHEB DX	08/25/91
SHELDON	NW	145.470	N9LIE/R O			* N9LIE	03/31/92
SISTER BAY	NE	147.180	W9QBJ/R O E			* WA9PFQ	03/12/92
SLINGER	SE	146.730	W9MQD/R O PL 127.3			* WA CO RG	03/12/92
SOLOM SPRINGS	NW	145.490	K9ASC/R O			DC RACES	12/03/91
SPARTA	SW	147.000	KA9YPF/R O			* KA9YPF	03/31/92
SPARTA	SW	224.000	KA9YPF/R O			* KA9YPF	03/31/92
SPOONER	NW	147.135	KE6WF/R O E Z L 223.2MHZ.			P TNT	05/11/91
ST GERMAIN	NC	147.315	KA9UCE/R O E			* KA9UCE	09/22/92
STEVENS POINT	NC	146.670	WB9QFW/R O A E Z			* CNT WI RA	03/22/92
STEVENS POINT	NC	146.985	W9NN/R O E			* CNT WI RA	03/22/92
STEVENS POINT	NC	443.950	KC9NW/R O			* KC9NW	09/26/92
STOCKBRIDGE	NE	145.210	KB9IE/R O PL			P GRNT RA	03/20/90
STOCKBRIDGE	NE	224.500	KB9IE/R O A L			KB9IE	03/20/90
STOUGHTON	SC	434.000	N9BXA/R O ATV			N9BXA	11/28/90
STURGEON BAY	NE	146.730	WB9YUY/R O OR PL 107.2 E			WB9YUY	03/09/91
STURGEON BAY	NE	147.210	W9AIQ/R O CA E Z			* DOOR E G	04/17/92
STURGEON BAY	NE	444.000	WB9YUY/R O			WB9YUY	03/09/91
STURGEON BAY	NE	920.000	WB9YUY/R O			WB9YUY	03/09/91
STURGEON BAY	NE	1282.100	WB9YUY/R O			WB9YUY	03/09/91
STURTEVANT	SE	29.640	WA9ZYU/R O			WA9ZYU	05/27/90
STURTEVANT	SE	224.740	WA9ZYU/R O			* WA9ZYU	03/12/92
SUN PRAIRIE	SC	443.600	KA9QOT/R O E PL 114.8 PROP.			* KA9QOT	05/24/92
SUPERIOR	NW	146.760	W9BWK/R O			* T P A RA	06/04/92
SUPERIOR	NW	146.820	WA9VDW/R O			* T P A RA	06/04/92
SUPERIOR	NW	444.900	WA9KLM/R O A E			* WITC ARC	03/12/92
TOMAH	SW	145.390	N9BOE/R O E 2911			N9BOE	03/09/91
TOMAH	SW	444.850	KB9EBX/R O PL 167.9			* KB9EBX	03/22/92
TOMAHAWK	NC	145.430	N9CLE/R O A E 2911			* TOM RP A	03/20/92
TOMAHAWK	NC	223.760	N9CLE/R O			* TOM RP A	03/20/92
TOMAHAWK	NC	444.575	N9CLE/R O			* N9CLE	03/20/92
TREVOR	SE	145.290	KA9VZD/R O PL 107.2 A E			* STLIN ARC	03/22/92
TREVOR	SE	442.600	KA9VZD/R O E A PL 2A L FM 38*			KA9VZD	03/22/92
UNION GROVE	SE	442.200	N9OEZ/R O			* N9OEZ	06/07/92
WABENO	NC	145.110	KF9DB/R			* KF9DB	07/27/92
WALES	SE	224.120	WB9DRO/R O PL 114.8			* WB9DRO	03/12/92
WAUKESHA	SE	147.390	N9KS/R O			* E.A.R.S.	04/04/92
WAUKESHA	SE	224.460	KE9TA/R O PL 85.4 CA			KE9TA	07/09/90
WAUPACA	NC	145.410	KE9UT/R O			* MIDWI ARG	09/26/92
WAUPACA	NC	146.835	N9BKJ/R O A E L R X WX ARES*			N9BKJ	03/12/92
WAUPACA	NC	146.925	KE9UT/R O			* MIDWI ARG	09/26/92
WAUPACA	NC	147.390	WA9FDC/R O X ARES/RACES			* WP'ACA RC	03/12/92
WAUPACA	NC	442.000	KE9UT/R O			* MIDWI ARG	09/26/92
WAUPACA	NC	444.825	N9BKJ/R O L			* N9BKJ	03/12/92
WAUSAU	NC	146.640	W9SM/R O E CA L Z X			W.V.R.A.	04/18/91
WAUSAU	NC	146.820	W9BCC/R O E Z CA L X			* R.M.R.A.	03/12/92
WAUSAU	NC	147.060	W9KRY/R O CA E			* KC9NW	09/26/92
WAUSAU	NC	224.640	W9SM/R O E CA L Z X			WI VAL RC	04/18/91
WAUSAU	NC	421.250	AD9W/R O E L AURAL + 4.5			* RMATS	06/28/92
WAUSAU	NC	923.250	AD9W/R O E L AURAL + 4.5			* RMATS	06/28/92
WAUSAU	NC	1250.000	AD9W/R O E L AURAL + 4.5			* RMATS	06/28/92
WAUSAU	NC	421.250	AD9W/R OEL VID-FM AUD+4.5*			* RMATS	06/28/92
WAUSAU	NC	421.250	AD9W/R OEL VID-FM AUD+4.5*			* RMATS	06/28/92
WAUSAU	NC	443.750	KC9NW/R O CA E			* KC9NW	09/28/92
WAUSAU	NC	444.100	W9SM/R O CA 2911			WVRA	11/03/90
WAUSAU	NC	444.300	W9BCC/R O E Z L			* W9BCC	03/12/92
WAUSAU	NC	444.700	KC9NW/R O E CA PL 179.9			* KC9NW	09/26/92
WEBB LAKE	NW	145.190	N9EDV/R O			* N9EDV	03/12/92
WEST ALLIS	SE	224.520	KA9JCP/R O			* KA9JCP	03/31/92
WEST ALLIS	SE	442.650	N9EJO/R O PL T			N9EJO	05/27/90
WEST BEND	SE	444.900	N5IIA/R O PL 114.8			* N5IIA	04/04/92
WI RAPIDS	NC	146.790	W9DQA/R O			MID-ST RA	03/30/91
WI RAPIDS	NC	147.330	K9PJB/R O CA E Z			* WI AIR RA	06/28/92
							10-07-92

Correspondence

Editor's note: This letter was received from a short wave listener in Poland. It is difficult to read. It is being printed below as closely to verbatim as I can read it. He is seeking various parts and other equipment.

26.09.92

Dear Friend Jim:

I am very very helpless! Ur help good comrades radio friends of city Baraboo. Accessons ur old, needless, useless. I am send you equivalent all stamps - post full size of blok stamps.

2 piece old variable condenser 0 - 50 or 0 - 100 pF for my konverter panel meters 0 - 50 μ A 0 - 1 mA or S-meters or vernier dial 0 - 100 control knobs 0 - 270°.

Old grid-dip meters?? Ur signal-tracer? Transistor MOSFET MPF-102/105. All not of Poland, 40 years not magazin shop. All produkt only U.S.A./Germany/Japan/Taiwan, etc. all West Zone.

I am renter "mini" pension 800,000 zl. for month = \approx value \$60 for month. I am worked 1/2 time-half repair for Akord television black-white.

Or helper old multitester analog 20,000 Ω /V.

"Mini" piezo-buzzers 3V - 12V or old tools - electronics.

I am old receiver 1945 year product Demohill - U.S.A. SX-28 Hallicrafters. Very very problem heard 21/28 MHz. I am worked konverter or antenna-amplifier for MPF-102.

73. Good luck.

Kazikimierz Lisowicz, SP9-649
41-902 Bytom 2
Box 98, Poland

P.S. For my boy-son \$5 for medikul "Biovital" and cocoa.

Amateur Radio Spectrum Protection Act Well Supported

Continued from front page

It requires government agencies to "take into account the valuable contributions made by Amateur Radio operators when considering actions affecting the Amateur Radio Service."

While not involving Congress in managing the radio spectrum (a regulatory function of the FCC), the proposed legislation requires the FCC not to diminish the amount of radio frequency already available for Amateur Radio, and to provide equivalent replacement spectrum for any frequencies that are reallocated.

- ARRL Bulletin 94, 10/12/92

Samuel F. B. Morse

Continued from page 6

Morse remarried, settled north of New York City, and died at the age of 81 in 1872.

Observations

What can be said about this accomplishment? As 'ham' operators, we stand in the tradition of Morse, not only in the sense that we use a code attached to his name, but that we as tinkerers, as inventors, as people wishing to communicate, all possess the potential of contributing meaningful things and ideas for the betterment of mankind. It is not insignificant that Morse, like Pasteur, like Issac Newton, like Faraday, like all the great men of science who have brought worthwhile data to the attention of the world, was a man who looked to God for direction. As we pound the brass and do our C-W thing, we should always be aware that the telegraph, as Morse realized and acknowledged, came from God. □

QRP Bicycle to Bicycle QSO

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

It is a brisk 46 degrees with drizzle from an overcast sky when Elroy Shelley, WB9GIE, puts on a heavy warm coat and gloves, leaves the warmth and dryness of his apartment in Milwaukee, Wisconsin, to take a bicycle ride. It is October 10th, 1992, and almost 4 p.m. when he is cycling near Timmerman Field Airport in Wauwatosa, a few miles west of his home.

Attached to his bicycle, WB9GIE has his Argonaut transceiver with 3 watts output, some batteries and a 20-meter Hustler short vertical. At 4 p.m., on schedule and peddling along, Elroy gives a call on 14.253 MHz SSB, "WC4X, this is WB9GIE". There is no answer. Another few calls and there is the good sounding signal of Ned Mountain, Extra Class WC4X in Atlanta, Georgia, who is mobile on his Cannondale bicycle.

Ned uses a Mizuho handi-talkie from Japan (\$325) which runs 3 watts with a rewound hamstick vertical antenna. Elroy exclaims, "We got you in here. Sounds great, really exciting, can't believe it, congratulations!" Ned replies, "This is unbelievable!" They exchange 5 by 7 signal reports, weather data and other information.

Ned reports he is wearing a T-shirt and shorts, has 75-degree weather and "an overcast sky. Coasting down a hill at 17 MPH, Ned clearly says, "This is something I'll remember for a long time." As the QSO continues Ned says Elroy is stronger, around 5 by 8.

WC4X asks if there is anyone else on frequency who would like to talk to him. I give my call and we QSO briefly. Just before I transmit again, Ned says he will put on his tape recorder logging system so that he has all our data to send a QSL card. K4TWJ, columnist for *CQ* magazine, is also on frequency and gives Elroy a call from his location. Elroy says, "I can hear everyone fine except there are some noisy airplanes taking off right here that are deafening at times."

Both bicycle hams are experienced: Ned, who gave a HF biking presentation at Dayton this year, worked England, Peru, New Mexico, and Minnesota on 15 meters biking just the day before. Elroy, who worked 80 countries, all states and continents from his bike says, "It's easy to work Japan, but to get a rare country I have to battle it out with the big guys."

Then according to schedule, WB9GIE and WC4X change to 21.285 MHz. Ned changes antennas without stopping; meanwhile, Elroy puts his kickstand down to make antenna changes and adjustments. I hear WB9GIE but WC4X is not heard. Finally a band change to 7.258 MHz, however the Pennsylvania QSO Party is in progress here so they decide to skip a 40-meter QSO attempt.

The wind and rain chilled Elroy's hands and head, yet he never used the umbrella he took along. After all, he just made an exciting QRP QSO on 20 meters with another rider in Georgia.

Elroy grips the cold wet, handlebars, pedals his bike towards home, smiles and says to himself, "Plain as day, incredible!" □

Ham Radio, SAREX Help NASA During STS-47 Flight

Continued from front page

was only a routine problem. Even so, the performance of hams operating SAREX lived up to our expectations, and helped keep the astronauts posted."

"This kind of people-to-people communication is what Amateur Radio is all about, whether it's contacting friends and family after a major hurricane here on earth, or resolving a minor malfunction in space," said K6DUE.

McFadin added that the students in Australia were so startled by the unexpected turn of events that they were unable to remember the questions they had prepared to ask Apt as the shuttle passed overhead. The SAREX engineer said that the communication outage lasted 20-25 minutes.

Thousands of Packet Contacts Made

During "normal" SAREX operations involving packet radio communications, the "Robot" firmware contained in the SAREX TNC performed flawlessly, keeping a log of contacts, and transmitting short beacon messages generated by the astronauts. A few examples of the packet transmissions copied in New Jersey follow:

W5RRR-1 > WA8EBM[13-09-92 14:41:36] <ISO R0>:
#638 is your STS-47 SAREX QSO number.

W5RRR-1 > QSL <UI>:
WB4TBF/1209 KF50/1205 KC4HNB/1204
N4TAE/1199 KC0LM/1198 W5VZF/1197 K0KJ/1195
Y1BGD/1181 KB1US/1138 KI4FN/1126
VK7ZBX/1115 VK7ZO/1114 VK6OD/1086
DL0CRE/1044 DL1YDD/1043

W5RRR-1 > SAREX <UI>:

This is STS-47 SAREX Robot station W5RRR-1 onboard the Space Shuttle Endeavour.

W5RRR-1 > QST <UI>:

It is 36 hours since launch, and everything is settling down to the routine of the wonderful life up here. We have had some wonderful views of Japan, Chicago, Boston Harbor, China, and Kamchatka. We have seen the southern aurora. We just saw the lights of Palmer Station on the Antarctic peninsula. Many countries have connected to us.... keep having fun! 73, N5QWL.

During this SAREX mission, an uplink frequency of 144.700 MHz was used for packet operations. This caused some interference in areas served by FM voice repeaters having input frequencies close to the 144.700 MHz uplink. In one instance, emergency communications to a stranded motorist was interfered with by ground stations attempting a packet connection with SAREX. A solution to this problem is currently under investigation.

QSL cards are available for all who either heard the shuttle or actually made two-way radio contact with the SAREX package. QSLs should be sent along with an SASE to: Jay Apt, N5QWL, 806 Shorewood Drive, Seabrook, TX 77586 USA. Stations outside the U.S. should include at least 50¢ or equivalent IRCs for return postage.

Thousands of packet operators were able to make contact with the Endeavour on STS-47. There were dozens of voice contacts and students in Australia, Hawaii, and the United States had some first-rate conversations with the space ship. Dr. Mamoru, 7L2JNY, also got on the air with SAREX, speaking Japanese while flying over his country.

- K6DUE, N5QWL, AMSAT-NA, *Newsline*, in *Westlink Report*, October 12, 1992



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Entry Level Expanded Privilege Petitions

Mount Horeb Ham Asks for Additional Frequencies

Several petitions are about to be filed before the FCC that ask for expanded operating privileges for entry level license holders. The National Alliance of Codefree Radio Amateurs says that it is going to place a demand before the FCC that spectrum on all HF phone bands be made available for use by no-code Technician Class amateurs. NACFRA argues that the WARC treaty that requires the knowledge of Morse Code at a speed of 10 w.p.m. (13 w.p.m. in the United States) for operating an amateur radio station on frequencies below 30 MHz is unconstitutional in the United States because the general public was never given the opportunity to vote on it in a public referendum! David Finer, an attorney and NACFRA spokesman says that his organization is aware that international treaties have traditionally been the purview of the United States Senate, but also notes that this responsibility was not delegated to the Senate as a part of the Constitution, but rather by Congressional action in

1934. Therefore, says Finer, no treaty is actually valid, and NACFRA protests the imposition of false standards on the American people by foreign governments. If the FCC refuses their demand, NACFRA will take the matter to court. (Westlink Ed.: Give us a break!)

Yet another advocate of expanded privileges for no-code Technician Class hams is Mark Jenkins, NZ9B (of Mount Horeb, WI). (BSSS Editor's note: Westlink Report typoed Mark's last name. It is not Jenkins, it is Jenks.) Jenkins says via packet radio that he has sent a petition for rule making to the FCC (and copied to the ARRL) that desires the reallocation of 2 MHz of the 30-35 MHz band for Amateur Radio use. The Wisconsin amateur and his radio club feel that the Amateur Service is in need of additional spectrum to offset the loss incurred when 220-222 MHz was reallocated to commercial service use, and to provide codeless Technician Class operators with alternative spectrum that offers different propagation

from the bands above 50 MHz to encourage upgrading.

Novice and Technician Plus (coded Techs) have a new advocate in *CQ Magazine* writer Bill Welsh, W6DDB. Welsh has petitioned the FCC to make the entire 30 meter band from 10.1 to 10.15 MHz available to these license holders based on the declining solar cycle and its adverse effect on propagation on the 10 meter band. Welsh argues that the Novice and Tech Plus allocation at 28 MHz is approaching propagation minimums, while 15 meter propagation is highly erratic and the 40 meter Novice allocation suffers from interference caused by international shortwave broadcasters.

At *Westlink Report* press time, it is not known which of these petitions has reached the FCC, and so far, no rule making designation has been assigned to any request.

- *Westlink Report*, 10/26/92

Ham Club Members Sport Foxy New Jackets

Members of the Green Fox Amateur Radio Club recently purchased jackets showing the club's name and logo on the back and their individual calls and names on the front.

Modeling in the front row are, left to right, Clark Schumacher, N9GVY; Jack Bremer, KB9WC; and Louis Jansma, K9ZPT.

In the back row are Clarence Jahnke, WA9YVC; Mac McCurdy, N9CXX; and Jim Lopas, K9CBU.



Photo by Carl Plotz/WB9JSW

From the Old Goat

Jim Romelfanger,
K9ZZ, Editor



As usual, there are a few things on mind again. Not to worry, there isn't anything profound running around inside my head.

In the November issue of *QST*, there is an article about the possibility of changing the ARRL's name from American Radio Relay League to something like American Amateur Radio League. The article says, in part, that "American Radio Relay League" does not say anything about it being an organization for Amateur Radio. (Sort of like the way *Badger State Smoke Signals* says absolutely nothing about what the newspaper is about, eh?) The article asks that, if you're a League member, you let your Division Director know if the name should change or stay the same. Central Division League members should communicate with Director Edmond Metzger, W9PRN, 1917 Lindsay Rd., Springfield, IL 62704, (217) 546-6870. Dakota Division members should comment to Director Howard Mark, W0OZC, 11702 River Hills Dr., Burnsville, MN 55336, (612) 890-9114.

Speaking for only myself, and not for other BSSS staffers, I favor the name change. Traditionalists will yell like hell about any change. But it makes just plain good sense to have an organization's name reflect what that organization is.

Finally, with recycling so much in vogue (and in law), it's time we tell our readers that BSSS is printed on recycled newsprint, and has been for a long time. It is printed with soybean-based ink, too. (Although our printer says that no printing ink is fully soy-based; there must be some other stuff in the ink, too, or it won't work.) Sometimes we even recycle news. □

Northern Wisconsin Radio Club

Continued from page 13

The election of officers for NWRC is Oct. 27th. The following meeting, scheduled for Nov. 24th, will again be at the Peppermill Restaurant, T-Bird Mall, Menomonie. Meeting time is 7:30 p.m. Any ideas for a program?

A reminder that dues are due for the '93 year. Dues are \$5, or \$10 with a subscription to the *Smoke Signals*. The club also offers ARRL renewals, with commission to the club, if we handle the paperwork. Your membership has helped sponsor amateur exams, Novice and no-code lesson class, general class CW practice, insurance bonding for Skywarn, and other public service activities.

Local Amateur News

The Red Cedar Repeater Association 146.01/61 MHz WB9YMB/R invites amateurs to attend 3rd Wednesday meetings, 7:30 p.m., Peppermill Restaurant, T-Bird Mall, Menomonie. Discussions range from the new remote receive technology used by this system to interpretations of Part 97.

NWRC Sec./Treas. Steve Hart, KA9OMC

Advertising Sales Representative Needed

Badger State Smoke Signals needs an advertising salesperson. A commission is paid, as are certain expenses. If you are interested, please contact Publisher Ken Ebner, K9EN, 822 Wauna Trail, Portage, WI 53901. Telephone (608) 742-3560.

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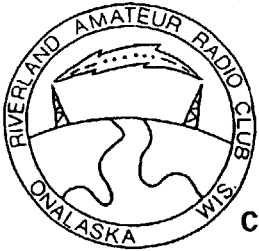


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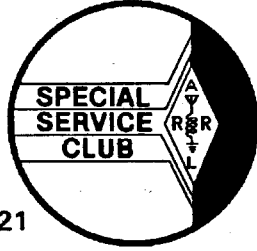
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Riverland Amateur Radio Club



Dick Low, K0JYB,
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES OCTOBER 6, 1992

The October meeting of the Riverland Amateur Radio Club was called to order by President Walt, AA9AW, at 7:05 p.m. with 30 members in attendance.

VISITORS: Mike Nelson, KB9RJ, Phoenix, Arizona.

COMMITTEE REPORTS

Program Chairman: Feroz, WU9N, informed us that the November RARC meeting will be held at the UW Planetarium which is located in the basement of Cowley Hall. The program starts promptly at 7:30 p.m., the title being "Above and Beyond" and will last 45 minutes. The show will be open to members and families. The \$30 fee will be paid for by the Club.

VE testing will take place November 9th.

December will bring election time for the RARC.

The program for this evening will be given by Dean, KQ0C, the subject being Rotor Repair and re-building.

Ham Radio Weekend: Bob, N9LZK, reported that he has two HF stations, a Packet station and possibly a satellite station. The Club trailer will be towed to Riverside Park by Greg, KA9FOZ, and Bill, KE9XQ, will tow the antenna trailer.

Bob suggested that we purchase a canopy for \$10, making it easier to see the LED's. A motion was made to purchase the canopy, motion carried. Bob also suggested that we notify the Boy Scouts as our event is on the same weekend as the Boy Scout Jamboree on the Air.

SET Exercise: Kent, W9LZQ, is looking for volunteers for a packet net, the net control being located at the Park during the Demo. See Kent if you are interested.

Swap Fest: Chairman Judy, N9LGV, was absent and a report was given by Rick, KV9U. The American Legion Pole Building has been reserved for next year on the weekend before Labor Day. The cost will be \$175, although there is a \$50 discount for cleaning up when finished. A discussion was held regarding sharing the event with another organization. A motion was made by Feroz, WU9N, that we take a look at various options regarding the Swap Fest. Motion carried.

Trailer: No report.

Special Interest Groups: D.F. committee chairman Bruce, K9CUT, would like to turn the group over to someone else, as he has conflicts which make it impossible to head up the committee.

450 Repeater: No Progress.

Club Repeater: No report, although Van, WA9FIO, distributed a report on BKMULTY, a communication software driver for the PC enabling sophisticated

control of a dumb modem for AMTOR-RTTY/CW.

NEW BUSINESS

Bruce, K9CUT, suggested a moment of silence for Larry, K9ETH, his wife and step daughter who were murdered last week.

Feroz, WU9N, presented a very nice brochure that the club could distribute to schools and to the public library and could be used in a new member kit. It could also be used for publicity for the new amateur radio class. Kent, W9LZQ, moved that we print 500 brochures. Motion carried.

New Class: Will start the first Thursday after Thanksgiving, the location being the same as last year at the Church of Christ at 3506 So. 28th St., La Crosse.

Rick, KV9U, announced that a VE test will be held on Nov. 9th at the Onalaska community center at 7:00 p.m.

Meeting adjourned at 7:56 p.m.

Congratulations to Dean, KQ0C, for his practical presentation on the repair of rotors. Emphasis was made on the use of a thrust bearing to protect the rotor and using the correct lubricants when re-assembling the units because of the wide temperature variations.

Several members participated in the program by tearing down and re-assembling their own units.

Submitted by Dick, K0JYB

MEETING ATTENDANCE

Greg A. Miller	KA9FOZ
Phil Uehling	W9UP
Brent Atchison	N9PZD
Brian McCarty	N9IWP
Mike Warnock	WN9P
Karl L. Olberg	W4ST
Joe Mezera	WA9SOQ
John Jorenby	KA9ETH
Dan Abts	N9PZC
Paul Bispig	N9PZB
Bruce Ladrone	N9PZE
Jack Yoshizumi	W9KTD
Ray Wakeen	WA9HHM
Don Brisson	K9BMC
Arby Boomer	WF9T
Duane Fruechte	W9HWQ
Dick Low	K0JYB
Art Osborn	W0JDC
Dallas Miller	K9LEC
Nook Bentzen	K9EGO
Dennis Heifner	N0BKW
Kent Helman	W9LZQ
Ed Peterson	K9CHK
Bruce Bjerstedt	K9CUT
Keith Hollatz	KB0KII
Van Elston	WA9FIO
Roger Christenson	
Jim Darnell	KE9XQ
Bill Wood	AA9AW
Walt Altus	WU9N
Feroz Ghouse	KQ0C
Dean Summers	

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P.O. Box 401

Abbotsford, WI 54405-0401

TAYLOR COUNTY AREA AMATEUR RADIO CLUB MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, November 5th at 7 p.m. in the Emergency Government meeting room/Red Cross office located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on 147.75/147.15 repeater.

28H. Sacho indicated his office would purchase a transceiver on condition that the club supply him with a mobile antenna and feedline and handle the installation of all the Amateur Radio equipment in the bus. A motion to that effect was made by N9FZD and seconded by KB9BLV. The motion carried.

Meeting was adjourned at 8:10 p.m.



Clark and Taylor
County Area
Amateur Radio News

EXCERPTS FROM MINUTES OF 10/1/92 TAYLOR COUNTY AREA ARC MEETING

Meeting was called to order by President N9GEN. Present were KB9BLV (Dorchester), N9IDW (Lublin), W9LEE (Westboro), and KA9WDX, N9FZD, and N9GEN (Medford).

Roland Sacho, Taylor County Emergency Government Coordinator, was present at the meeting, and discussed the new Taylor County mobile command post bus. He inquired about what make and model of Amateur Radio transceiver he should purchase for the bus. The membership present suggested getting an ICOM IC-

Many thanks to the following individuals who helped with putting up the antenna for the new ham, Henry, N9QWB, at his residence in Owen on Saturday morning, October 10th: N9GHZ, KA9UXN, KA9WDX, and NZ9U. A Cushcraft ARX-2 2-meter antenna was placed at the top of Henry's existing TV antenna mast on his roof. Henry recently had surgery on his knee, and was not supposed to be up on any roofs. Heavy rains Friday night threatened to postpone the work, but everything proceeded on schedule Saturday morning with only an overcast sky, although everything was still a bit damp! Henry is still waiting for delivery of his new 2-meter radio. □

Sheboygan County Amateur Radio Club

Steve Meifert, KF9KZ, Secretary

1525 New Jersey Avenue • Sheboygan, WI 53081

The October 13, 1992 meeting was called to order at 7 p.m. by President Chad Christianson, N9HMR.

The minutes from the September meeting were read by Steve, KF9KZ, and a report on the Club's treasury. Luiz, KA9HUF, was excused.

Volunteers were enlisted for the Monday night 2 Meter Net Control, and there was no report from the Technical Committee.

OLD BUSINESS

The subscription to *Badger State Smoke Signals* was renewed. If your dues are not current, you will no longer receive it.

NEW BUSINESS

The club's old repeater antenna has been removed from its old home on LTC's tower on CTH EE. Bay Tower notified Chad that complete removal of hard line and antenna would cost near \$800. After conferring with the Technical Committee it was decided to accept an offer from Bay Tower to remove all, keep the hard line and bill the club only \$100 for removal of

the antenna. The antenna is currently at Al's place.

This month the infamous FLAT TUBE, the Club's traveling trophy of excellence, was awarded to the winners of last month's Fox Hunt Congratulations.... AL & LYLE! In just over an hour, they discovered the whereabouts of the devious and cunning Fox. (I think they were hoping for a better prize though, like maybe some outdated callbooks.)

The Club's Activity Award is presented monthly to the Member who has shown proof of the most number of contacts for the preceding month. Bring your log to each meeting for verification. If you have any questions see Penny, KB9BJM.

A motion was made, seconded and unanimously passed to offer the first year reduced membership fee to No-Code Technicians as well as Novices.

Kurt Diedring, WB9GLB, is offering old issues of *QST* dating back to 1986 free to anyone who would like to pick them up.

The meeting was adjourned at 7:33 p.m.

*Respectfully Submitted,
Steve Meifert, KF9KZ*

Wisconsin Nets Association

WNA MEETING MINUTES SEPTEMBER 19, 1992

Held at the WNA Picnic in New Holstein, Wisconsin

Attendance was as follows:

Sherm Carr	W9NGT
Roy Pedersen	K9FHI
Beryl Pedersen	KA9BAC
Keith Shilhavy	KY9P
Wayne Schanke	KE9VU
Joan Schanke	N9JAE
Larry Guthu	WB9ICH
Guthu Family	KA9EVZ
Jim Merrell	W9AYK
Art Evans	KA9KLZ

Dennis Rybick	K9LGU
Robert Hummel	WA9ZTY
Roberta Hummel	KA9OSA
Linda Hummel	NOCAL
Ed Rice	W9NGP
Russ Fleming	WB9NYG
Les Peterson	W9YCV
Barb Regent	N9DIJ
Rich Regent	K9GDF
Don Stenz	K9KSA
Pat Stenz	
Gus Bonow	W9IHW
Kay Bonow	
Jim Caldwell	WB9YPY
Bill Niemuth	KB9ENO
Mike Ortlers	KN9P

The meeting was called to order by

Chairman Don Stenz at 1:12 p.m.

WA9ZTY read the minutes from the last meeting, and they were approved as written and published.

Treasurer's Report: KY9P, Keith:

Balance as of last meeting was \$158.12

1 renewal for BSSS for two years	
	+\$19.00
Expenditure for BSSS	-\$12.80
Income of	\$6.20

Balance at beginning of this meeting:
\$164.32

Elections(?) were held for the chairman, treasurer, and secretary.

Our new chairman is Larry Guthu, WB9ICH, replacing Don Stenz, K9KSA.

Thanks, Don, for a job well done.

Our new treasurer is Jim Merrell, W9AYK, replacing Keith Shilhavy, KY9P. Thanks, Keith, for a job well done.

Robert Hummel, WA9ZTY, was reelected secretary.

Our meeting continued with our new chairman Larry.

Denny, K9LGU, has been taking care of our articles of incorporation for all these years. He makes sure he gets the ten dollars from our treasurer and sends it in to the state, along with the necessary paperwork. Thanks, Denny!

Net reports are as follows:

W9AYK, *Badger Weather Net*, 3.984, 6 a.m. til 7:15 a.m.: Conditions

Please turn to page 13

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

RACINE MEGACYCLE MEETING OCTOBER 12, 1992

The meeting was opened at 7:30 p.m. by President Brian, WD9FRH. The minutes as presented in the *Badger State Smoke Signal* were approved. Undersigned was recognized for getting a picture from the visit to the 911 operation on the first page of the BSSS.

Treasurer Dave, WD9ZIO, gave the financial report. Present balance is \$137.43. Last month's balance was \$190.43. That meeting was cancelled due to the visit to the 911 operation.

There was a good crowd, with 30 hams and visitors present.

OLD BUSINESS

Dan, KA9OIL, who heads the nominating committee for the next year's club officers gave a short report.

President Brian brought up the need to put up the antenna for the club station which has been taken down. The rotor will have to be repaired also. Dan, KA9OIL volunteered to help.

Gene, WB9ZKY, reported that he has purchased new tubes for the Swan transmitter.

NEW BUSINESS

Cheryl, WS9P, brought up the need to form a committee for next year's ham dinner.

President Brian, WD9FRH, presented \$150 to the club from the The Racine Bicycle Club. The money comes from helping out at the bicycle event sponsored by the bicycle club.

Dan, KA9OIL, reported on the upcoming Fox Hunt where he will be the Fox himself. For more details, please contact him. You don't have to have equipment to participate. There is always room in someone's car. May be you can be a map reader or help with the radio.

Dave, WB9USI, reported on the upcoming Hamfest in Racine next May. It promises to be a very exciting event. The Hamfest will be part of the new yearly event, Big Boys Toys, which will include dealers for other hobbies like model planes, boats, etc. It will go on for three days, and take place at the Racine Festival Site. There will be a limited number of tables for the hams. If you want to reserve a table, you can contact Rory Bauer at (414) 636-9271. Other details will be

CALENDAR

*Courtesy Racine
Megacycle Club*

1992

Nov 8 Hamfest at Fox Cities
Nov 9 Megacycle Club Meeting
Nov 14 Hamfest at Grays Lake
Nov 15
Ham Auction at DeVry Institute
Nov 22 Hamfest at DuPage
Dec 5 Testing at Red Cross
Dec 7 Megacycle Club Meeting

1993

Jan 10 Hamfest at Waukesha
Mar 28 Hamfest at Grays Lake
Apr 4 Hamfest at Madison
Apr 18 Hamfest at Rockford
May 20
through
May 22 Hamfest at Racine
Jun 6 Hamfest at Princeton
Jun 13 Hamfest at Stevens Point
Jul 10 Hamfest at Oak Creek
Jul 10 Hamfest at Eau Claire
Aug 8 Hamfest at Peotone

forthcoming as they become available. Dave is our contact.

The meeting was adjourned at 8:30 p.m., and the speaker for the evening, Bob, W0WLN, took over. Bob presented the second and last part of his experiences as a POW in Germany. He spent one year and a half in a prison camp, and had plenty of true stories. For me and my wife it was the most interesting program this year at the club.

The next Megacycle meeting will take place November 9 at 7:30 p.m.

*Respectfully submitted:
Arne, KA9ZPY, club secretary*

provides two signal improvements over the rubber duck. First, in an on-the-air test, the Tiger Tail produced one to two S-units improvement in signal strength over a path of about 30 miles. The second improvement, which I had not even expected, was noticed when I moved around. My signal did not fluctuate nearly as much on the receiving end of the path with the Tiger Tail as it did without the Tail.

My handie-talkie, like all my other ham gear (of which there isn't much) is an old IC-2AT. This is a monster-size radio compared to today's hand-helds. The IC-2AT's chassis, therefore, probably provides a better "counterpoise" than the newer, tiny hand-helds now being sold. Thus, the owner of one of the newer and smaller portables might notice an even greater improvement in performance.

The Tiger Tail works. It probably isn't needed when you're close to a repeater or other receiving station. But if you find yourself in a situation where getting a readable signal to the guy on the other end of the path might be crucial, you may be glad you had the foresight to tuck the Tiger Tail in your pocket!

- Reviewed by
Jim Romelfanger, K9ZZ

Mancorad Radio Club

John Meyer, NZ9Z, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204

MEETING MINUTES OCTOBER 14, 1992

The October meeting of the Mancorad Club was called to order at 7:34 p.m. by President Chuck, N9KGL. Twenty-five members were in attendance.

Treasurer George, N9BCX, gave the Treasurer's report which was approved as read. The Minutes were approved as printed in the *Smoke Signals*.

OLD BUSINESS

The commemorative buttons from the Submarine Special Event Station are on order. They will be presented to operators from both the 1991 and 1992 events. The Sub Event QSL Party is scheduled for Wednesday, October 21st, at 6:30 p.m., in the clubroom.

President Chuck, N9KGL, noted that a letter has been sent to the Kohler Company requesting help in getting a generator for the club's Emergency Communications Vehicle. A letter has been sent to the Manitowoc Holiday Parade Committee declining to put the Emergency Vehicle in the parade this year. He has also sent a letter to the club's insurance carrier establishing the claim for the June accident with the truck.

A letter received from the Manitowoc Public Library shows that the complete set of ARRL books donated by the club in memory of John Christensen, W9TVA, (except for two) are accounted for. The missing volumes may be checked out.

Chuck, N9KGL, reported that he is awaiting word on a pickup date by the dealer for the spare 6-by trucks. The parts that the club will be keeping will be taken off at that time.

The club's Midwinter Party is scheduled for January 30th at the Cedar Ridge Restaurant, at the Maribel offramp of I-43. Happy hour will be at 6 p.m. with dinner at 6:30. Featured once again will be chicken and barbequed ribs at \$8 per person. Please make reservations and pay on or before the January 13th monthly meeting.

The club's new repeater transmitter was showed off. It's awaiting crystals and power transistors before being installed. It was also noted that the .61 repeater is currently running barefoot due to problems with the amp.

NEW BUSINESS

President Chuck noted that the incoming administration will need to prepare a list of which club materials can be loaned out and which are to stay in the clubroom, so there will be no confusion on the matter in the future.

Clancy, KB9ECW, was introduced as the new Manitowoc County RACES Officer. There was an emergency drill last Saturday -- a simulated HazMat spill at Rockwood. RACES members activated the amateur console at Emergency Government. Chuck, N9KGL, has submitted a critique on the drill.

A letter from the Manitowoc County Emergency Government Director to the club was read by your Secretary in which she expressed concerns at the significant increase in autopatch use on the club's repeater. Emergency Government pays the phone bill there. The club's response was also read. In it, we pointed out an increase in club membership along with a lack of awareness on our part that Emergency Government was being charged on a per call basis. The letter promised to make club members aware of the director's concerns and advise them to use that autopatch only for emergency and drill calls when possible. Red, N9GHE, informed the club that members were welcome to use his autopatch on 147.03 for the more routine calls. The same phone macros as in the club repeater will soon be available on his also.

Election of officers for 1993 were held next with results as follows:
President -- Chuck, N9KGL
Vice President -- Red, N9GHE
Treasurer -- Janice, N9IQZ
Secretary -- John, NZ9Z

Please turn to page 13

Product Review

THE "TIGER TAIL"

Manufactured by AntennasWest

Jim Stevens, KK7C, certainly has come with a lot of innovative ideas for antennas. The "Tiger Tail," while not exactly an antenna, is half of an antenna.

VHF hand-held radios generally use a "rubber duck" antenna, which is in essence a quarter-wave antenna in shortened form. In order to work properly, antennas like these (one-quarter wavelength verticals) require a counterpoise. With a hand-held radio and rubber duck antenna, the only counterpoise present is the radio's chassis (such as it is), along with whatever capacitive coupling there might be to the body of the operator of the radio. Such a counterpoise is most certainly not resonant, and surely very, very inefficient.

Enter the Tiger Tail. This inexpensive add-on for your two-meter handie-talkie provides the missing half of the antenna - the counterpoise.

In a non-scientific test, your editor found that the Tiger Tail works. In fact, it

Info Needed for Wisconsin "Specialty" Net List

Badger State Smoke Signals would like to publish a list of "specialty" nets in Wisconsin, eastern Minnesota, northern Illinois, and Upper Michigan. The list would include swap nets, club nets, ragchew nets, SWL nets, AMSAT nets, and others, but not traffic and emergency nets. Traffic and ARES nets are listed on page 4 of each issue.

While the list we will publish

would probably include nets primarily held on VHF FM, HF nets also may be listed if they are Wisconsin-area based. If you would like a net to be included in the list, please fill out the form below completely. The list will appear in a forthcoming issue.

Please send the completed form to Jim Romelfanger, K9ZZ, 412½ Ash Street, Baraboo, WI 53913-2501.

Specialty Net Listing for Badger State Smoke Signals

PLEASE PRINT!

NET NAME: _____

NET FREQUENCY: _____

MODE (i.e., AM, FM, SSB, CW): _____

AREA SERVED: _____

TIME(S) OF NET (LOCAL): _____

DAY(S) NET MEETS: _____

PRIMARY PURPOSE/TYPE OF NET: _____

NET MANAGER: _____

FORM PREPARED/SUBMITTED BY: _____

CALL SIGN: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

TELEPHONE NUMBER (WILL NOT BE PUBLISHED): (____) _____

DATE SUBMITTED: _____



WB9QFW 2-Meter Repeater 146.07-67 and Club Station

P. O. Box 847 • Plover, WI 54467

These are the minutes for the Oct. 14th meeting of C.W.R.A., Ltd., which was called to order at 7:30 by our president, Art, N9BCA.

Prior to the introductions, a moment of silence was observed for Lori Jasper's (KA9ZGD) father, who had recently passed away. Our deepest sympathy goes out to Lori and Scott, NE9U, at their loss.

21 members then introduced themselves, the roll being as follows:

N9BCA	Art Wysocki
KA9ACE	Jim Benak
KE9MA	Gene Kroll
N9EIL	Debbie Kroll
KA9FAS	Mary Eiden
W9BCC	Frank Guth
N9CGV	Joe Omernik
KE9IA	Gordon Miller
N9OVT	Dave Golla
N9RAO	Kevin Haase
W9GHY	Mike Peters
N9JQR	Frank Podach
KA9LAQ	Mike Pagel
N9JQU	Dave Olson
K9DB	Paul Nelles
W9NN	Bob Baird
WB9E	Brian Feltz
W9NYS	Leo Liebl
KB9GXV	Mike Urban
KA9DJA	John Kalina
NJ9H	Ron Howe

The first order of business was to resurrect the prospect of a TNC for the club station. Since we have some students from UWSP as members, and with increased usage of the station, a renewed effort will be made to secure a TNC for the station. Ron, NJ9H, was authorized to spend \$275 for the TNC.

For some time, we have been looking for a source of coax to make available to club members at a reasonable cost. Art, N9BCA, reported on a source of 9913 type coax for \$189 for a 500 foot roll. The price was right, but there was concern over the idea that this is not Belden cable. Art was directed to investigate the coax carefully and to use his discretion as to whether or not this is a sound purchase and proceed accordingly.

Mike, KA9LAQ, gave an update on the packet cluster situation now that AA9A is down due to lightning strikes. With connections to a node near Baraboo are marginal at best, it may be necessary to move our station to make connections more reliable.

Bob, W9NN, gave a short report on the .985 repeater, then turned the floor over to Ron, NJ9H, for further info. Ron reported on a modification that will be pursued to tighten up the receiver from 25

kHz down to 12.5 kHz. He will also review the specs of various machines and present us with his recommendations for a replacement machine for .985 (and .67).

Art, N9BCA, then gave us a report on the swapfest and the results of his search for a possible alternative site. The Junction City Armory was eliminated, since we would have to provide our own tables, security, PA system, etc. Sentry-world gave us a definite NO, citing concerns of damage to the floor in the area where the swapfest would be held. Art asked for suggestions from those present, and will look into the Highway garage and municipal buildings in Plover.

Mike, KA9LAQ, is looking for ideas for future programs to present at our club meetings - preferably some type of a "hands on" project. He also put out a call for bodies to help clean up the club station, which is in rather poor shape following renovations to the Stein Building in the immediate vicinity. He would also like to see the club put the station on the air during some of the upcoming contests.

Mike will also look into various places/prices/menus for our annual banquet. Come to the November meeting prepared to make a decision, information will be put out on the ARES net on the Monday before the meeting (hopefully) so that all will have some time to think about what they want. NOTE: Mary, KA9FAS, will not be able to organize the banquet this year, so we do need your help.

Kevin, N9RAO, who works at Campus Security, asked for some ideas on simplifying checking amateurs for authorization to use the club station. Some ideas were brought up and will be considered.

Art then gave a quick overview of our last tornado situation and reminded us to make sure to check the cables and connections on our equipment regularly so that we do not have problems when they can be least afforded.

Paul, K9DB, gave us a report on a source of 6 meter repeater equipment that could be tuned for amateur use. He will explore the idea further and report back to the club. He also gave us an update on the weather radar situation in Wausau.

The meeting was adjourned at 8:32, and after a short break, Paul gave a program on practical uses of higher math in everyday amateur life. He also gave a presentation on light, using a laser to demonstrate the concepts he talked about.

Our next meeting will be on November 11, 1992 in room A-109 of the UWSP Science building. See you there.

73 de KA9ACE

Northern Wisconsin Radio Club

- Since 1923 -

Steve Hart, KA9OMC, Secretary

Route 1, Box 54 • Knapp, WI 54749

Greetings, NWRC members and guests.

The last meeting of the NWRC was the annual club banquet, held at the Holiday Inn in Eau Claire on Sept. 22. Thirty people attended the activity, and the theme for the banquet was "How do we give something back and not just take from the hobby."

KA9OMC, Steve, spoke on the significance of getting together in a social gathering like the banquet.

WU8I, Doris Kilanski, was honored for work with the NWRC-sponsored VEC exams. Doris received a copy of the *Who's Who in Amateur Radio* book in recognition of her "giving back to the hobby."

K9KGB, Bill Duncan, supplied excellent door prizes, and 15 people went

home with either a letter opener, calculator, or buck knife.

Lois Ristow, from the Beaver Creek Reserve at Fall Creek, provided an excellent program on turtles under the Earth Talks program. Everyone attending got an up-front chance to meet a live snapping turtle named "Chomper." Like a new ham at the local coffee clutch, Chomper strolled through the crowd, making new friends around the room. Everyone seemed to enjoy the program, and Lois invited all to visit the reserve at Rt. 2, Box 94, Fall Creek, WI 54742. Tours and an observatory are offered at the reserve, and reservations can be made at (715) 887-2212.

Please turn to page 10

Eau Claire Amateur Radio Club

Don Franzmann, W9NFJ, Secretary

2728 Marilyn Drive • Eau Claire, WI 54701

MEETING MINUTES OCTOBER 13, 1992

The meeting was called to order by President Bill Jablonske, W9NNS, at 7:35 p.m. The secretary's report was approved as corrected. The treasurer's report was approved as read. Introduction of members and guests followed.

A nominating committee was appointed to provide a slate of officers for next year. The committee consists of Fred, KC9NN; Jim, N9LIJ; Dan, N9HME; and Jennifer, N9NFK.

Jeff, N9JMB, updated the club on the revisions in the new edition of the repeater blue book and distributed copies for review and comment. He also announced that Skywarn stickers may be obtained

from Mike, N9GHZ, and Rich, N9MEH.

A lengthy discussion concerning unauthorized use of our repeaters ensued, following reports by various members. The president was authorized to look into the matter and take appropriate action.

The membership approved a motion for the club to purchase two copies of SAM, a computer-based call book listing, including updates as required.

Following the business meeting, Nat, W0OCZ, provided an excellent talk on Fox Hunts which included some historical information as well as examples of the equipment involved.

Respectfully submitted:
Don Franzmann, W9NFJ, Secretary

Wisconsin Nets Association

Continued from page 11

have been very poor. Thanks to WD9IID, Mac, who lives in Bloomington, Ill., for extensive relaying during the conditions of long propagation. Traffic has been about 83% due to band conditions.

KE9VU, Badger Emergency Net, 3.985, noon: Approximately 23 checkins per session. New people showing up. 5 - 6 pieces of traffic. 34 minutes per session. Conditions have been O.K.

K9UTQ, Wisconsin Sideband Net, 3.985, 5:30 p.m.: Gene was not present. Roy, K9FHI, reported nothing new. Net is running well.

KA9FVX, Wisconsin Novice Net, 3.723, 6 p.m.: Adrian unable to make meeting, no reps attended, no report at this time. This is a great net for all the new Novices and the new Tech+ people. Tell them about it at your club meetings and VE sessions! Get to know some of the folks around Wisconsin and build your code speed at the same time!

N9BDL, Wisconsin Slow Speed Net, 3.645, 6:30 p.m.: Lee unable to attend. No reps here. No report at this time.

WIN Early, 3.662, 7 p.m.: Nothing new to report at this time.

WIN Late, 3.662, 10 p.m.: Ed, W9-NGP, reporting. K9SAO newest member. Net control stations deserve praise for being very reliable. Makes being net manager a lot easier. Ed would like to see more CW traffic.

Northwoods Traffic Net, 146.34/94 Rhinelander repeater, 6:30 p.m.: Nothing new to report.

Section Manager Report: Rich Regent, K9GDF: Public Service Awards to be issued to N9NZP, KA9DQK, WA9-OAY, and WB9SMM for assisting a stranded motorist who happened to have stalled in a very dangerous location in the

Watertown area.

Rich reports that he will be promoting the nets again in QST.

Also, be sure to submit your net registration cards. The new net directory will be published shortly and, if you don't register, you will not be in it!! Remember, the ARRL can't read your mind!!

NEW BUSINESS

Les, W9YCV, suggested the *WNA Manual* be updated to incorporate traffic handled via packet method, and several new procedures to accommodate various ways ham radio has changed lately.

Les, W9YCV, and Art, KA9KLZ, volunteered to research what updates should be issued.

Net managers who do not have a copy of the *WNA Manual* can get one from our new treasurer, W9AYK.

Art, KA9KLZ, discussed our scholarship, which has not yet gotten off the ground. He suggested we table the idea for a while until we can get some financial support for the idea.

Rob, WA9ZTY, suggested maybe someone could start a net similar to the Northwoods Traffic Net, perhaps on the 146.28/88 machine in Baraboo, with CWRA permission. With all the new Technicians and entry level to ham radio changing like it has, many new hams do not have HF privileges which would allow them access to HF traffic nets in Wisconsin traffic handling. A half hour net, maybe starting at 7 til 7:30 p.m. Art suggested that perhaps some of that time could be used for training in traffic handling. (Hey, folks, it's easy, monkey see, monkey do!)

Any volunteers, net manager, net control stations? And CWRA must be contacted before any net is organized.

With all of the above, the meeting was adjourned by new Chairman Larry Guthu about 2:30 or so.

Many nice door prizes were handed out. There were plenty of prizes; they almost went around twice! Thanks to everybody who donated prizes. □

ManCoRad Radio Club

Continued from page 12

Board of Directors, Members-at-Large:

Clancy, KB9ECW
Ron, WS9X
Carl, KA9ZTF

The new officers will take office beginning November 1st.

Novice/Tech classes are tentatively scheduled to commence in mid-January. We are looking for instructors - any volunteers?

A reminder that membership renew-

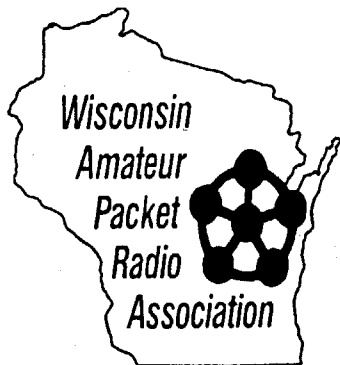
als are due for the new financial year beginning November 1st. Dues must be paid by December 1st in order to keep receiving the *Badger State Smoke Signals* without interruption.

President Chuck asked if members were interested in reinstating the tradition of having snacks after the meeting. All were in agreement, and Mary, KB9GOY, and Julie, N9PZX, offered to prepare the tray for next month.

A motion was made to close the meeting by Chuck, W9BZU, and was seconded by Bill, K9DUX. The meeting adjourned at 8:45 p.m.

Submitted for approval:
John Meyer, NZ9Z, Secretary

Articles, stories, and photos of hams in action are needed for BSSS. Please send them to the editor. See page 2 for the address. Thanks!



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

William Schroeder, W9ZBD
4247 Forest Point Drive • Rhinelander, WI 54501

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

Minutes: WANA Oct Meeting

MINUTES of the OCTOBER 10, 1992 MEETING OF WANA
WISOTA Amateur Networking Association

Meeting was held at the Onalaska Community Center in Onalaska, WI on October 10, 1992 at 10 A.M. The meeting opened at 10:10 a.m. by Feroz, WU9N, as Chairperson, and Scott, KA9FOX as Secretary/Treasurer.

Present were: (* = WANA member)

WU9N Feroz Ghouse * KB9EQI Karl Simonson *
KA9FOX Scott Neader * WB9GWW Dwight Fryseth *
KJYB Dick Low * WT9M Larry Kapp *
WJDC Art Osborn * W9HWQ Duane Fruechte *
AA9AW Walt Altus * W9LZQ Kent Helman *

The minutes of the August meeting were read and approved as read.

The Treasurer's report was read and approved as read.

OLD BUSINESS:

Secretary/Treasurer Scott, KA9FOX, was asked give an update on current membership status. There have been no new mailings to prospective members, however WANA has received five additional responses bringing the new membership count to 35.

Duane, W9HWQ, on behalf of the 145.09 Traffic Congestion Committee, brought up for discussion some ideas to reduce traffic on 145.09 which would help those out-of-town better access LSE2. Because of the costs associated with the most viable ways to reduce congestion and the fact that WANA has prior commitments that it must take care of first, Walt, AA9AW made a motion that this project be shelved. The motion carried.

Chairperson Feroz, WU9N, informed the group that letters had been sent, per the August meeting, notifying the ARRL HQ and Minnesota and Wisconsin Directors of our stand on HF unattended packet forwarding.

Chairperson Feroz, WU9N, discussed the proposed April 1993 packet conference. Feroz has not heard any input from other members as of yet and would like to get some feedback.

Kent, W9LZQ, updated the group on the 9600 high-speed link to Rochester. The high-speed link is running fairly smoothly and is resulting in speed increases of two to three times that of 1200 baud.

Kent W9LZQ, along with Scott, KA9FOX, gave an update on the status of a DX Packet Cluster link between Rochester and La Crosse. A link now exists on 223.42 between Rochester and K9FYZ near Chaseburg, although the link is very marginal. A site for a node between these cities is currently being sought. Other ideas for a link were also discussed.

Kent, W9LZQ, discussed the need for a new power supply at the Nodine site. The current supply, which is from an old computer, is being borrowed from Walt, AA9AW. Although Walt is in no hurry to get his supply back, the supply does not have a case and is quite a shock hazard. Walt, AA9AW, motioned that Kent, W9LZQ, be authorized to investigate the possibility, and purchase if feasible, a used 12 volt power supply not to exceed \$35. Karl, KB9EQI, seconded the motion and it carried.

Kent, W9LZQ, was asked to discuss our link to the East. A meeting of WAPR will be held in two weeks where the proposed high speed link to Madison (Lodi) will be discussed. At Tomah, the radio and feedline has been replaced. Van, WA9R10, has modified and installed the Motran two meter radio that WANA purchased, and it

seems to be working fine.

Scott, KA9FOX, was asked to give an update on fund raising status for the high speed 9600 baud link to Rochester. At present, 13 of WANA's 35 members have made financial contributions towards paying for the link. A donation was also received from the Cresco (Iowa) Amateur Radio Club. The total cost of the link stands at \$1,089.00. Total donations stand at \$400.00. At the August meeting, WANA earmarked half of its treasury for this project, but this still leaves a balance needed of approximately \$420.00. It was agreed to again ask local users who benefit from the network to make a financial contribution, if they have not already done so.

NEW BUSINESS:

of funding for a future high-speed link to Madison took place. A motion was made by Scott, KA9FOX, that WANA urge WAPR to resolve to place a number one priority on developing a high speed link between La Crosse and Madison (Lodi), including support in the way of time, money and equipment. Karl, KB9EQI, seconded the motion and it carried.

A motion was made, seconded and approved to adjourn at 12:00 p.m.

Respectfully submitted,
Scott Neader, KA9FOX
WANA Secretary/Treasurer

Text of ARRL DIGI recommendations

RECOMMENDATIONS

I. The Committee wishes to enable as many amateur licensees as possible to contribute to, and enjoy, our service. The previous recommendation stands, to permit semiautomatic operation in any digital portion of any band. This privilege will permit a variety of experimentation and operations such as personal mailboxes and MSOs to co-exist with "live" users, on a non-interference basis.

II. By using the IARU Region 2 band plan, US operation will be in compliance with international agreement. Since the sub-bands designated by the IARU as "packet priority" will offer no protection from interference to other users of that space, including US amateurs, the Committee proposes fully-automatic operation by US amateurs within those segments of the band, using any approved digital data mode. It is recommended that those segments be dubbed "automatic priority," as a more accurate, descriptive term.

III. No packet priority segment was specified by the IARU on 40 meters, yet automatic networks have been operating there since the beginning of the STA. As we approach the sunspot minimum, and the MUF lowers, 40 meters will be badly needed for many propagation paths. The Committee therefor urges approval of a small automatic priority segment from 7.100 to 7.110 MHz. Similarly, no digital segment was specified by the IARU for 160 meters. While there is little or no digital activity on this band, developing modes show promise of improving operation in this somewhat hostile (digitally) environment. The Committee feels it would be a valuable testing ground, and requests an automatic priority segment from 1810 to 1820 KHz. Specific frequencies recommended for automatic priority are listed in Appendix B.

IV. The Committee cannot overemphasize our concern for protecting other spectrum users from the potential interference of automatic stations. To this end, the recommendation for automatic operation is made on the basis that

protection by rule will be provided in the form of specific sub-bands to which fully automatic operation is restricted.

There is precedent for special use, by-rule sub-bands, as in 97.203(d) for beacon stations. Any other usage plans, within digital segments, should be by voluntary plan, not by rule.

The requested sub-bands should not place an additional enforcement burden on the FCC. Amateurs have always been largely self-regulating. The committee views the requested rules not as something else the FCC must spend time monitoring, but rather tools to enforce reported infractions.

V. By current standards, AX.25 is considered the least efficient protocol in use for digital modes. The STA representatives request, and the Committee wholeheartedly agrees, that AX.25 protocol be struck from 97.109(e) as a requirement, and replaced with the ability to use any accepted digital protocol.

Because the investment in technology development is large, developers hesitate to widely publish details (competitive disadvantage) in the early stages. To address this issue, it is proposed that developers be allowed the latitude to use new protocols, during the development phases, so long as they file details of the protocol, privately, with the ARRL.

VI. Because digital technologies are developing rapidly, the Committee proposes to compile, and provide to the Board, a proposal for any desirable adjustments to Region 2 band planning, prior to future IARU Region 2 conferences.

VII. The Committee reinforces its previous suggestion that the League undertake publication of a tutorial-style operator's guide for HF digital operations clearly defining acceptable operating practices, voluntary-use band plans, DX windows and beacon frequencies.

Appendix A

The following is suggested wording for an addition to Part 97 authorizing automatic and semiautomatic digital mode operation. Note that RTTY, AMTOR, packet, CLOVER, PACTOR and future digital data modes are treated equally as "digital modes."

97.3 Definitions

() Unattended Digital Station - A station in the amateur service, using any accepted digital mode protocol for data or message transmission, and operated without a local control operator present.

() Semiautomatic operation - A two-way communication in which the control operator of a locally controlled amateur station manually initiates, monitors and controls communication between that station and an unattended digital station.

97.109 (e) No station may be automatically controlled while transmitting third-party communications, except a station retransmitting digital radio communications using an accepted protocol on the 6m and shorter wavelength bands, or on 10m and longer wavelength bands in sub-bands where automatic control is specifically authorized. The retransmitted messages must originate at a station that is being locally or remotely controlled.

97.216 Unattended Digital Station

(a) Any amateur station licensed to a holder of a General, Advanced or Amateur Extra

Class license may be an unattended digital station.

(b) An unattended digital station may operate on any frequency authorized for digital transmission modes.

(c) No unattended digital station may initiate contact with another station or broadcast any undirected signal unless operating in a band or band segment where fully-automatic operation is authorized.

(d) The transmitter of an unattended digital station must be equipped with a functioning time-out timer that will insure no signal is transmitted for longer than five minutes in the event of the malfunction of control equipment or loss of contact with another station.

(e) Unless operating in a band segment where fully-automatic operation is authorized, the control operator initiating contact with an unattended digital station must be present at the local control point. The control operator must first ascertain that no interference will be caused to existing communications, must remain present for the duration of the contact, and must discontinue the contact if it becomes evident that communications with the unattended digital station is interfering with other amateur communications.

Appendix B

It is recommended that all stations under automatic control be restricted to the following Sub-bands...

10 M: 28.120 - 28.189 MHz

12 M: 24.925 - 24.930 MHz

15 M: 21.090 - 21.125 MHz

17 M: 18.105 - 18.110 MHz

20 M: 14.095 - 14.0995 MHz
14.1005 - 14.112 MHz

30 M: 10.140 - 10.150 MHz

40 M: 7.100 - 7.110 MHz

80 M: 3.620 - 3.635 MHz

160M: 1.810 - 1.820 MHz

Report from ARRL Digital Committee
September 26, 1992

W Files & How to Download

Here are a few helpful hints, on how to access the W Files, and the way to download a file here on the BBS...

1) First to see what directories are in the W Files (type the letter W), the BBS then will show you a list of Directories, that look like this:

ARRL <DIR>
AMSATBULL <DIR>
KNWD1 <DIR>
YAESU1 <DIR>

2) Now to see what files are in each one of these Directories, you would (type W ARRLorW KNWD1) and so on, this is what you will see if you type W KNWD1:

93QAMTOR.MOD
93OCW.SVC
79ORPTR.MOD
KENWOOD.SVC

3) If you happen to find a file that you want to download the FORMAT is this:

D KNWD1/93QAMTOR.MOD

The subdirectory file then will be downloaded to your system.

If you are having problems or need help please try and use the HELP FILES on the BBS, type the letter H, the BBS then will show you a list of commands that you can get help with. To

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The October 18, 1992 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:32 p.m. by Bob Sauvan, WT9Q.

The minutes of the last meeting, as published in the BSSS were accepted (after a few typos were noted) on a motion by Bill Klinkner, N9KXX and seconded by Harold Reif, KA9YQP.

Jim Decker, WB9UQT gave the treasurers report.

Bob Suavan congratulated Rick Wegner, N9MME, who recently upgraded to General. Other announcements by Bob Sauvan included information on several upcoming contests and about a Friday night net at 9:00 p.m. on 10 meters phone (28.4MHz.).

OLD BUSINESS: Art Kleefisch, W9WSS, plans on contacting the Baraboo library soon regarding list of Amateur Radio books that the library may want to consider purchasing.

NEW BUSINESS: Paul Snyder, KB9FGI, application for membership was voted on and accepted. Pete Sweeney, WD9JIB was approved to serve as the member-at-large on the executive committee. Art Kleefisch volunteered to act as the liaison between the club and the Baraboo Civic Center. Art also will work on the 1993 meeting schedule. The Christmas party will most likely be at the regularly scheduled December meeting (Dec. 10) with a \$2.00 gift exchange and refreshments.

Buck Night drawing was won by Joe Sweeney, KB9ERR, who was not present, thus adding to the pot for next months winner.

A motion for adjournment was made by Art Kleefisch and seconded by Bill Klinkner.

Respectfully submitted,
Raymond J. Matlosz, N9MLZ, Secretary

The next meeting of the YTARC will be held on Wednesday, November 18, 1992 at 7:30 p.m. in room 14 of the Baraboo Civic Center, Baraboo, Wisconsin.

The following members and guests were present:

Marvin Kaiser	Wisconsin Dells
Thomas Harrison, N9PQJ	Reedsburg
Peter Sweeney, WD9JIB	Reedsburg
Raymond Matlosz, N9MLZ	Reedsburg
Anne Klinkner, N9PQL	Prairie du Sac
Bill Klinkner, N9KXX	Prairie du Sac
Harry Westlund, K9EHJ	Baraboo
Duane Grotophorst, KA9HKL	Loganville
Paul Snyder, KB9FGI	Sauk City
Ben Paepke	Prairie du Sac
Mark Snyder, NCMVV	North Freedom
Harold Reif, KA9YQP	Baraboo
Harry Mayland, K9EFT	Baraboo
Jim Decker, WB9UQT	Baraboo
Bob Sauvan, WT9Q	Sauk City
Arthur Kleefisch, W9WSS	Baraboo

do this you would type a ? and then the first letter of the command you need help with, say you need help with the L cmd, you would then type ?L, the BBS then will explain the List cmd.

Here are the list of command letters you can get help with, ?A, ?B, ?C, ?D, ?G, ?H, ?I, ?J, ?K, ?L, ?M, ?N, ?P, ?R, ?S ?T, ?W, ?V, ?X, ?U, ?*

I hope that this will explain to some of you how to download files and how to get help from the BBS....

There are many files in the W Files to download, so enjoy the system and if you have any problems just leave me a note on the BBS...

For those of you that are interested in SWL or need info on a BBS or call, maybe a zipcode, then try downloading the DATABASE.HLP file, it will explain the use of the "GX" command, the SEARCH function here on the BBS....

73 de Larry/WD9ESU

Sending a Personal Message

I have noticed that alot of the Users here on the BBS have been using ONLY the S command, instead of SP when sending a Personal message, Please in the future try and get into the habit of using the correct format for sending a PERSONAL MESSAGE!....There are even some that have addressed a Personal message as a Bulletin, so try and get the format straight fellows, as I have to end up editing them correctly.

Here are the correct commands for sending Bulletins, and Personal messages, they can be found on the BBS by just typing the ?S or for that matter any command you need Help on, just type a ?X where the "X" is the letter you need

Help with.....

Send command format: Sx tocall @bbs

where x is message type (P=private) use SP for Personal.

tocall is destination callsign (without - number).

@bbs is destination BBS (again without any - number). [OPTIONAL]

If @BBS part is omitted then if the station has entered a Home BBS (NH command) that BBS will be used. Otherwise the to station callsign will also be used as the @BBS if it is a known bbs. In general you should enter an @BBS!

If you know the state of the destination, you should add it to the @BBS call you give, with a period between the @BBS and two letter state abbreviation.

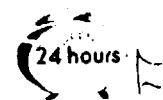
NOTE: AT may be substituted for the @ sign
Examples: SP W1XXX @WOYYY.CO
SP N18V AT N18V.MI.USA

You will next be asked for a title for the message. After this you type the message, keeping all lines less than 80 characters. When you are done with the message type Z or /EX on a new line.

Use SB to send bulletins, ST to send traffic, etc. All messages sent to a specific callsign will be treated as if you used SP (send private). To make messages to a specific callsign readable by everyone use SB instead of just S!

(continued on page 3)

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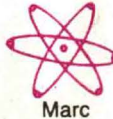
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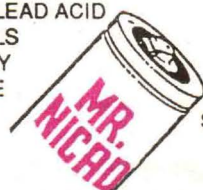
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